California
Hospital Outcomes Project

Heart Attack Outcomes
1994 -1996
Volume 3: Detailed Statistical Results

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Report on Heart Attack Outcomes in California, 1994-1996

Office of Statewide Health Planning and Development

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Roxanne Andrews, Ph.D. and Mary MacDonald had overall responsibility for all aspects of the project, serving as liaison between OSHPD, the research team, and the included hospitals. OSHPD staff conducted the death certificate linkage.

Gerald F. Kominski, Ph.D. and Rebecca Levan supervised the contract team at UCLA. Dr. Kominski had primary responsibility for revising the *User's Guide* and *Technical Guide.* Lisa Lara was responsible for most of the data processing and statistical analyses, with the assistance of Dr. Hongjian Yu and Dr. Kominski. Dr. Brian Mittman and Cori Reifman led the focus groups of administrators and physicians who provided useful feedback about the content and format of the project reports, and the development of one-page hospital summary reports. Dr. Gregg Fonarow, a cardiologist on the faculty of the UCLA Medical School, served as a clinical consultant to the project team.

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Overview

Report on Heart Attack Outcomes in California: 1994 - 1996

The California Hospital Outcomes Project is an initiative mandated by the State of California, and conducted by the Office of Statewide Health Planning and Development (OSHPD), to develop public reports comparing hospital outcomes for selected conditions treated in hospitals throughout the state.

The Report on Heart Attack Outcomes is intended to encourage all California hospitals to improve their care and give credit to the hospitals that are the leaders. It can also help insurers, employers, and consumers to select hospitals based on quality of care.

The California Hospital Outcomes Project

Heart attacks (acute myocardial infarctions or AMIs) were chosen as one of the first conditions to be reported upon by the California Hospital Outcomes Project because they are important, common, and deadly. Every year approximately 40,000 heart attack patients are admitted to 400 California hospitals. More than 5,000 of these persons die.

The mortality rates published in previous heart attack reports have been used in many ways. Hospitals have used their results to evaluate and improve their quality of care. Payers have used the reports to contract with the best hospitals. Consumers have used the reports to make more informed decisions.

The results published in this report are useful because:

- **They have been risk-adjusted.** Patient age, sex, type of heart attack, and chronic diseases were used to adjust for differences in patient risk when calculating hospital mortality rates.

- **They have been validated.** A major validation study involving nearly 1,000 heart attacks at 30 hospitals showed that variations in how hospitals report their data to OSHPD do not significantly affect their risk-adjusted death rates. In general, low-mortality hospitals treat heart attacks more aggressively than high-mortality hospitals.

Content of the Report on Heart Attack Outcomes

This is the fourth report on heart attack outcomes. The first report was published in December 1993; the second in May 1996; and the third in December 1997. This report includes heart attack cases from 1994 through

1996. The current report includes improvements in the risk-adjustment methodology introduced in the previous report. These improvements include:

- Linking with Vital Statistics records to ascertain deaths occurring outside the hospital,
- Refining certain patient risk-factor definitions based on the findings of the validation study published in 1996, and
- Using six months of pre-heart attack hospital records to more completely describe patient risk factors.

This year's report consists of four volumes:

The *User's Guide* (Volume 1) is intended for all those interested in hospital performance including hospital staff, employers, government agencies, health plans, and insurance companies. This volume provides a brief description of the study background and methods. It also contains two tables that display the results for individual hospitals based on heart attacks that occurred between 1994 and 1996.

The *Technical Guide* (Volume 2) is intended for health services researchers, health care providers, and others interested in the statistical methods used to calculate risk-adjusted death rates.

The *Detailed Statistical Results* (Volume 3) contains the numerical results for individual hospitals upon which the classifications in the *User's Guide* are based. In addition, there are tables that aggregate the results to the county level. It also contains a graphical representation of both individual hospital and county-wide results, which can be used to examine annual trends.

The *Hospital Comment Letters* (Volume 4) is intended to give readers of the *Report on Heart Attack* an appreciation of its strengths and weaknesses from the hospitals' perspectives

> To obtain these documents contact:
>
> Office of Statewide Health Planning and Development
> Data User's Support Group
> 818 K Street
> Sacramento, CA 95814
> (916) 322-2814
>
> Documents, excluding the *Hospital Guide*, are available on the internet at **http:\\www.oshpd.state.ca.us**

Hospitals were provided with a *Hospital Guide* several weeks before the *Report on Heart Attack Outcomes* was published. This document accompanied each hospital's patient-specific data. Hospitals used this document to access and use their patient-specific data and to prepare their comment letters, provided in Volume 4. More importantly, hospitals and their physicians can use this information to target areas where heart attack care might be improved.

Using this Volume

This document describes the hospital-specific statistics developed by the California Hospital Outcomes Project and discusses appropriate ways to use these statistics. The statistics are available in two media: as part of this document, which contains one table for each hospital beginning on page 19, or in a file available on OSHPD's web page (www.oshpd.state.ca.us/hpp/chop) which contains one record for each hospital and one record for each county. The only difference between the two versions is that the printed version presents numbers that are rounded off to have fewer digits.

Relationship to Other Volumes of this Report

The purpose of this volume of the *Report on Heart Attack Outcomes* is to provide and explain the detailed statistics associated with heart attack (i.e., acute myocardial infarction or AMI) mortality in California hospitals. It also suggests appropriate uses for these detailed data and explains why certain uses would be inappropriate.

The *User's Guide* (Volume 1) describes the data and summarizes the methods used in the analysis of risk-adjusted heart attack mortality. Statistical methods were used to determine whether each hospital's AMI death rate was significantly different from what would be expected by chance. The results, using aggregated 1994-1996 data, are presented in two charts in the *User's Guide*. The first chart classifies each hospital into one of four categories. The second chart displays these risk-adjusted death rates graphically.

The *Technical Guide* (Volume 2) presents a detailed description of the data and risk-adjustment methods. This detailed methodological presentation is intended to allow users and researchers to review and comment on the approaches taken and to encourage improvements in the future.

As required by law, each hospital and its chief of medical staff were sent summaries of their own results and draft copies of the report. All hospital comments submitted in response to the draft report are included in *Hospital Comment Letters* (Volume 4). These responses should be reviewed carefully if the reader is interested in the results for particular hospitals.

Statistical Significance and Hospital Classification

The threshold of statistical significance used in this report of the California Hospital Outcomes Project is $p<0.01$. This means that a hospital's risk-adjusted mortality rate was considered to be significantly lower or higher than expected if the hospital's observed death rate was more extreme than what

would be expected to occur by chance 1 percent of the time. Even if every hospital provided the same quality of care, chance variation in outcomes would mean that some hospitals would appear to be high outliers and some low outliers. With roughly 400 hospitals in the analysis, 1 percent or four would have higher than expected mortality due just to chance variation. Another four (1 percent) would have lower than expected mortality by chance. If about 8 of the 400 hospitals were actually identified as outliers, one might conclude that none had quality of care problems, since this many outliers would be likely to occur just by chance.

In fact, 56 hospitals were identified as outliers for AMI mortality using Model A and 52 were identified as outliers using Model B. This distribution is inconsistent with the premise that all hospitals have equal quality. Without additional information from medical records, however, it is impossible to tell which of the outliers provided unusually good or poor quality care and which were outliers just due to chance.

A hospital is unlikely to be an outlier several years in a row just by chance. If this occurs, it probably reflects some consistent factors. Outcomes for AMI patients are based on cases admitted between January 1, 1994 and December 1, 1996. Overall mortality is reported as well as mortality for each of the three years separately. AMI outcomes for each year are calculated by applying the overall mortality model (which adjusts for the year of admission) to a single year's cases. Very few hospitals shift from being extreme low outliers in one year to extreme high outliers in the next. However, some hospitals with initially high mortality do improve over time, possibly because of improvements in quality of care. Similarly, some hospitals with initially low mortality appear to deteriorate over time. The graphs presented in this volume display these temporal trends, but the statistical significance of these trends at individual hospitals has not been assessed.

Explanation of the Detailed Results

Hospital specific results are displayed in two ways. The detailed tables give the statistics upon which the summary results shown in the User's Guide are based. The charts present those results graphically.

The Tables, an Example

TABLE 1: Detailed Statistical Results for Acute Myocardial Infarction Mortality

<table>
<tr>
<th colspan="12">Healthy County: General Hospital*</th>
</tr>
<tr>
<th></th>
<th>Statewide Death Rate (%)</th>
<th>Number of Cases Included</th>
<th>Number of Observed Deaths</th>
<th>Number of Expected Deaths</th>
<th>Standard Deviation of Observed Deaths</th>
<th>Observed Death Rate (%)</th>
<th>Expected Death Rate (%)</th>
<th>Risk-Adjusted Death Rate (%)</th>
<th colspan="2">Risk Adjusted Death Rate:95% Confidence Bounds</th>
<th>Probability This Rate Occurred by Chance</th>
</tr>
<tr>
<th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Lower</th><th>Upper</th><th></th>
</tr>
<tr>
<td>Model A   All Years</td><td>12.7</td><td>135</td><td>16</td><td>19.2</td><td>3.8</td><td>11.9</td><td>14.2</td><td>10.6</td><td>5.7</td><td>15.5</td><td>0.239</td>
</tr>
<tr>
<td>1994</td><td>13.0</td><td>40</td><td>4</td><td>7.1</td><td>2.2</td><td>10.0</td><td>17.7</td><td>7.3</td><td>0.0</td><td>15.3</td><td>0.116</td>
</tr>
<tr>
<td>1995</td><td>12.8</td><td>52</td><td>6</td><td>6.7</td><td>2.3</td><td>11.5</td><td>12.9</td><td>11.5</td><td>2.9</td><td>20.0</td><td>0.481</td>
</tr>
<tr>
<td>1996</td><td>12.4</td><td>43</td><td>6</td><td>5.4</td><td>2.1</td><td>14.0</td><td>12.6</td><td>13.7</td><td>4.4</td><td>23.0</td><td>0.466</td>
</tr>
<tr>
<td>Model B   All Years</td><td>12.7</td><td>133</td><td>16</td><td>16.6</td><td>3.4</td><td>12.0</td><td>12.5</td><td>12.3</td><td>7.2</td><td>17.3</td><td>0.497</td>
</tr>
<tr>
<td>1994</td><td>13.0</td><td>39</td><td>4</td><td>4.3</td><td>1.8</td><td>10.3</td><td>11.0</td><td>12.1</td><td>1.2</td><td>23.0</td><td>0.567</td>
</tr>
<tr>
<td>1995</td><td>12.8</td><td>51</td><td>6</td><td>7.5</td><td>2.1</td><td>11.8</td><td>14.8</td><td>10.2</td><td>3.4</td><td>17.1</td><td>0.313</td>
</tr>
<tr>
<td>1996</td><td>12.4</td><td>43</td><td>6</td><td>4.8</td><td>1.9</td><td>14.0</td><td>11.1</td><td>15.6</td><td>5.8</td><td>25.4</td><td>0.337</td>
</tr>
</table>

Table 1 summarizes the results for a hypothetical hospital. The first column on the left identifies the specific analytic model and the second column identifies the year(s) of data included in the results. The AMI outcome was death within 30 days of admission for the index AMI. Hospitals with no AMI patients in 1994-1996 are not included in this report. Because of specific data limitations described in Chapter Five of the *Technical Guide*, 24 hospitals with AMI patients were excluded from the analysis in one or more of the three study years. An "Excluded" notation indicates that the data from a hospital in this year were excluded.

AMI results based on both Models A and B are presented for each hospital. These models are explained in general terms in the *Users Guide* and in detail in the *Technical Guide*. Sometimes slightly fewer patients were analyzed under Model B than Model A. This is because some risk factors unique to Model B (e.g., race, insurance status) were unknown for some patients. When this occurred, that patient was omitted from the Model B analysis. The omission of some cases from Model B causes a slight difference between the two models in the overall death rate.

The results are displayed year-by-year as well as for all years combined. For example, the results in a row labeled "1994" include only eligible patients discharged from the hospital for AMI in 1994. The row labeled "All Years" includes all eligible patients in 1994, 1995, and 1996 combined. Some hospitals do not have any AMI patients in a particular year, but do have patients in other years. In this case, the row corresponding to the year in which the hospital had no cases would be blank.

General Hospital in Healthy County, shown in Table 1, is used as an example for the following explanation of hospital-level summary statistics. The county-level tables in this volume include the same variables as the hospital-level tables described.

The Statewide Death Rate (%) is the total number of patients included in the study who died within 30 days of admission, divided by the total number of patients included in the study, multiplied by 100 to convert this proportion to a percentage. As Table 1 shows, the overall *Statewide Death Rate* for AMI during 1994-1996 was 12.7 percent.

The line indicating Number of Cases Included tells how many cases from this hospital were included in the models. A general description of patient inclusion and exclusion criteria is in the *User's Guide*. A detailed description is in the *Technical Guide*, Chapter Two. Cases with missing data for one or more demographic variables included in Model B (such as race or source of payment) are not included in Model B. The overall number of AMI cases at General Hospital was 135 under Model A and 133 under Model B.

The Number of Observed Deaths is the number of patients at a facility who died within 30 days of admission for AMI. The death may have occurred at the index hospital, a transfer hospital, or outside the hospital setting. The full description of the outcome variable is given in Chapter Four of the *Technical Guide.* At General Hospital, the overall *Number of Deaths* in the AMI analysis was 16 under both Model A and Model B.

The Number of Expected Deaths among patients included in the analysis is presented in the next column. The influence of patient characteristics on the risk of death was estimated from the statistical models described in the *Technical Guide*, Chapter Seven. The predicted probability of death was computed for each patient. Summing these probabilities over all patients treated at a hospital gives the predicted number of deaths among those patients. At General Hospital, the *Number of Expected Deaths* was 19.2 using Model A and 16.6 using Model B.

The Standard Deviation of the Observed Deaths is the square root of the sum, over all of the included patients, of each patient's probability of death (p_i) times the probability of survival ($1-p_i$), i.e., $SQRT(\sum_i p_i(1-p_i))$. At General Hospital, the *Standard Deviation of Observed Deaths* was 3.8 for all years using Model A and 3.4 for all years using Model B. Note that the standard deviation of the number of expected deaths is very small relative to this quantity because it is based on a statistical model estimated using a far

larger sample. Although the standard deviation of the expected number was calculated, it did not affect the classification of hospital mortality and was therefore not used in the final analysis.

The Observed Death Rate (%) is the number of patients at this hospital who died, divided by the number of patients at this hospital included in the analysis, multiplied by 100 to convert this proportion to a percentage. For example, under Model A at General Hospital, the overall *Observed Death Rate* for AMI was (16/135) x 100, or 11.9 percent. Under Model B at General Hospital, it was (16/133) x 100, or 12.0 percent.

The Expected Death Rate (%) is the expected number of patients at this hospital who died, divided by the number of patients at this hospital included in the analysis, multiplied by 100 to convert this proportion to a percentage. General Hospital had 135 AMI patients included in Model A. With 19.2 patients expected to die, General Hospital has an *Expected Death Rate* under Model A of 14.2 percent (after rounding).

The Risk-Adjusted Death Rate (%) is derived using a technique known as indirect standardization. It adjusts the observed death rate at the hospital to reflect what the rate would be if the patients were about as ill as "average" patients in the state. The *Risk-Adjusted Death Rate (%)* is calculated as the statewide rate, multiplied by the ratio of the number of *observed* deaths to the number of *expected* deaths at this hospital. This adjusted death rate can be used to compare the performance of different hospitals.

For example, the *Risk-Adjusted Death Rate* using Model A patients is the statewide rate (12.7 percent) times the observed number of deaths, divided by the expected number of deaths. At General Hospital under Model A, only 16 patients died whereas 19.2 were expected to die. For General Hospital, the risk-adjusted death rate is 12.7% x (16/19.2) = 10.6%. Adjusting for its patient mix, General Hospital's risk-adjusted death rate is lower than its observed rate of 11.9 percent.

Note that the expected death rate (14.2 percent) was higher than the statewide rate (12.7 percent). This difference reflects the fact that patients at General Hospital had higher risk, on average, than the statewide population of patients. The risk-adjusted figure of 10.6 percent is an estimate of what the death rate would be at General Hospital if its patients matched the state average in terms of risk.

The Risk-Adjusted 95% Confidence Bounds reflect the level of confidence in the hospital's risk-adjusted death rate. Assuming that the risk model is correct, there is a 95 percent chance that the hospital's true risk-adjusted AMI death rate under Model A falls between the *Lower 95% Confidence Bound* of 5.7 percent and the U*pper 95% Confidence Bound* of 15.5 percent. Please note that this 95% confidence interval differs from the 98% confidence interval shown in the *User's Guide*. A narrower interval, providing 95% confidence rather than 98% confidence, is used in these tables for the benefit of individual hospitals and physician groups that are interested in evaluating their own performance. Wider confidence intervals are used to identify

hospital outliers in the *User's Guide*, because of the large number of hospitals evaluated in the study.

The Probability This Rate Occurred by Chance is a measure of the likelihood that this many or a more extreme number of deaths occurred by chance, given the expected number of deaths from the risk-adjustment model. If the observed number of deaths is less than or equal to the expected number, a *lower p-value* is computed. If the observed number of deaths is more than the expected number, an *upper p-value* is computed.

The lower p-value is the probability of the observed number of deaths or fewer. The lower p-value represents a "test" of whether this hospital has systematically **better** outcomes than expected based on its patients' risk characteristics. A lower p-value of less than 0.05 indicates that there would be less than a 1 in 20 chance of this hospital having this few or fewer deaths, given its mix of patients, if quality of care were average.

The upper p-value is the probability of the observed number of deaths or more. The upper p-value represents a "test" of whether this hospital has systematically **worse** outcomes than expected based on its patients' risk characteristics. An upper p-value of less than 0.05 indicates that there would be less than a 1 in 20 chance of this hospital having this many or more deaths, given its mix of patients, if quality of care were average.

Because General Hospital had fewer deaths than expected in Model A, the lower p-value of 0.239 was used. Thus, in this hospital with 135 patients (and 19.2 expected deaths, based on Model A risk factors), the probability of observing 16 or fewer deaths due to chance alone is about 1 in 4 — a finding quite consistent with chance variability. Such a finding provides little evidence that General Hospital's outcomes differ systematically from the statewide average.

A very small p-value of, 0.01 (1/100) for example, means that one would expect to observe so few (if a lower p-value) or so many (if an upper p-value) deaths only 1 time in 100, by chance. A more likely explanation for such an extreme finding would be systematic differences in quality of care or coding of discharge abstracts.

The classification of hospitals into one of four categories, based on all three years of data, (as shown in the *Users Guide*) is based on a p-value of 0.01. Hospitals classified as significantly better than expected had fewer deaths than expected and a lower p-value less than 0.01. Hospitals classified as significantly worse than expected had more deaths than expected and an upper p-value less than 0.01.

Summarizing the contents of Table 1, General Hospital has an overall risk-adjusted death rate of 9.4 percent from Model A and 11.1 percent from Model B. These rates are less than the overall statewide death rates but these differences are not statistically significant. In the first table in the *Users Guide,* General Hospital would have been represented by a simple box (☐) for Model A and Model B in the results columns.

The Charts, an Example

Table 1 gave the detailed statistics for the fictional General Hospital in Healthy County. Figure 1 below displays General Hospital's yearly risk-adjusted death rates and the 95 percent confidence bounds around those rates.

Figure 1: Healthy County: General Hospital
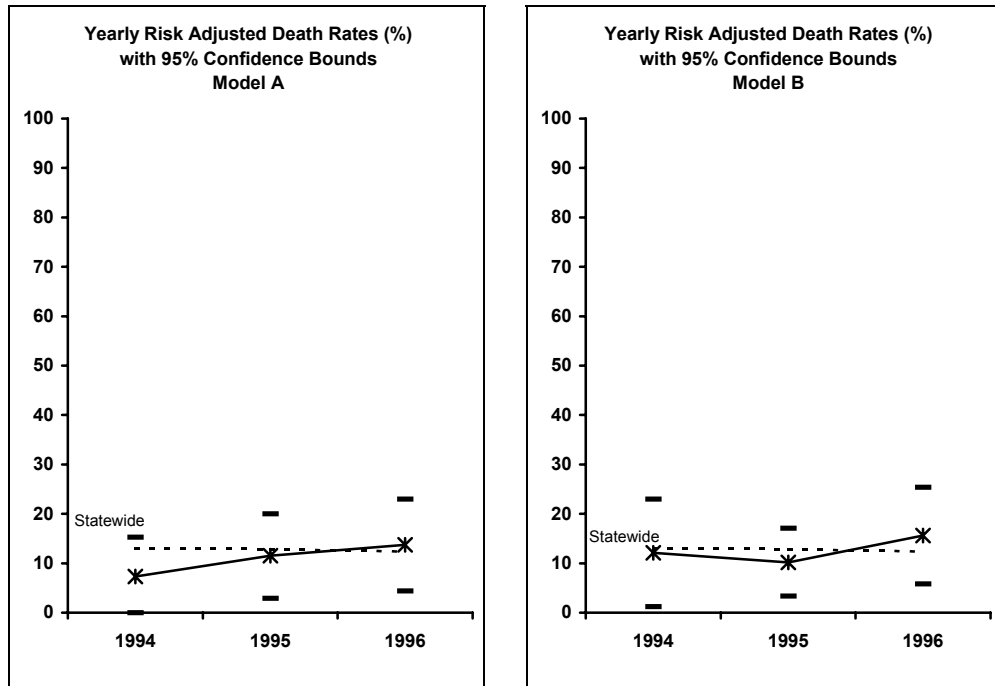
Each table for a specific hospital or county is followed by two charts which graphically display the hospital's or county's risk-adjusted death rates from Model A and Model B, by year. The risk-adjusted death rates and 95 percent confidence bounds displayed in these charts are identical to those shown in the table on the same page.

The *Users Guide* includes a very similar display of hospitals' risk-adjusted death rates. However, the charts show overall results for 1994-1996 and feature 98 percent rather than 95 percent confidence bounds.

In the charts in this volume, annual risk-adjusted death rates for AMI patients are denoted by asterisks. As described above, the risk-adjusted death rate represents a measure of hospital performance adjusted for differences in patients' severity of illness across hospitals. Each risk-adjusted death rate is surrounded by 95 percent confidence bounds, which are denoted by thick dashes above and below each asterisk. There is a 95 percent chance that a hospital's true risk-adjusted death rate lies within the indicated range.[1]

The statewide death rate is denoted by a horizontal dotted line. Note that the statewide death rate dropped from 13.0 percent in 1994 to 12.8 percent in 1995 to 12.4 percent in 1996. If the horizontal dotted line is below the hospital's lower confidence bound, then that hospital had a significantly higher than average risk-adjusted death rate, and significantly more deaths than were expected, in that year. If the statewide death rate lies above a hospital's upper confidence bound, then that hospital had a significantly lower than average risk-adjusted death rate, and significantly fewer deaths than were expected, in that year. For most hospitals, the statewide rate lies within the confidence bounds, indicating that the hospital's performance was within the expected range. This expected range is substantially wider when individual years are shown separately than when all three years are aggregated, as in the chart in the *Users Guide*.

Because two separate risk-adjustment models were developed to estimate the probability of death, the risk-adjusted death rate and confidence bounds from Model B are displayed next to the comparable data from Model A. If a specific hospital appears to have no point on the chart for one or more years, then that hospital either had no eligible cases or was excluded because of data limitations during that year or set of years. Volume Two, *Technical Guide*, Chapter Five explains which hospitals were excluded because of data limitations. If a hospital had no eligible cases across all three years (1994-1996), then it is not listed in this volume.

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1. The confidence bounds shown in these charts are based on a widely used method called the normal approximation (see the 1997 *Technical Guide*, Chapter Eleven). For most hospitals, this procedure generated confidence bounds nearly identical to those implied by the exact method that was used to calculate p-values in the detailed statistical tables and to identify mortality outliers in the *Users Guide*. However, a few hospitals have 95 percent confidence bounds that do not include the statewide average, despite the fact that their exact p-value exceeds 0.025. The exact p-value is a more precise measure of the probability that a hospital's true risk-adjusted death rate equals the statewide average.

California Office of Statewide Health Planning and Development

How Not to Use These Results

*One might be tempted to use this set of hospital data tables to generate lists of the "best and worst" hospitals in the state or in a particular community. This is **not** appropriate. Such listings or rankings are subject to substantial misinterpretation, stemming largely from the problem of chance variability discussed previously. This section discusses how to interpret the observed and expected death rates, and explains why ranking is inappropriate.*

Interpreting Death Rates

TABLE 2: AMI Data for a Hypothetical Community

Hospital	Cases	Deaths			Death Rate (%)		P-Value	Observed/ Expected	Risk Adjusted Rate		
		Observed	Expected	Standard Deviation	Observed	Expected			Observed	Confidence Interval	
										Low	High
A	7	0	1.2	0.85	0.0	17.1	0.184	0.00	0.0	0.0	20.1
B	25	0	3.5	1.69	0.0	14.0	0.019	0.00	0.0	0.0	13.7
C	69	4	8.7	2.50	5.8	12.6	0.037	0.46	6.7	0.0	14.8
D	98	11	16.5	3.43	11.2	16.8	0.068	0.67	9.7	3.8	15.6
E	420	44	66.0	7.01	10.5	15.7	0.001	0.67	9.7	6.6	12.7
F	282	35	45.6	5.74	12.4	16.2	0.037	0.77	11.1	7.5	14.7
G	116	13	14.2	3.34	11.2	12.2	0.434	0.92	13.3	6.6	19.9
H	98	17	13.6	3.21	17.3	13.9	0.182	1.25	18.1	11.4	24.8
I	29	9	5.8	2.01	31.0	20.0	0.093	1.55	22.5	12.6	32.3
County Total	1,144	133	175.1	11.37	11.6	15.3	Z-score = -3.66				

The importance of statistical variability is highlighted by the confidence intervals associated with the risk-adjusted death rates reported for each hospital. To illustrate this, Table 2 presents AMI data for nine hospitals from across the state, selected to represent a hypothetical community. The hospitals have been ordered from low to high according to their risk-adjusted death rates, using all three years of data combined. The risk-adjusted death rates range from 0 percent to 22.5 percent. The risk-adjusted death rate represents what a hospital's death rate would have been, if its patients' risk profile had been equal to the statewide average.

Hospitals A and B appear at the top of the list because they had no deaths. However, this cannot be interpreted to mean that they had the best outcomes for heart attack patients. Hospital A had only 7 AMI cases, a very small number for statistical inference. The expected number of deaths at this hospital was 1.2. While the observed number of deaths was less than the expected number, this result could be due to chance alone and is not statistically significant. This is shown by the p-value of 0.184, which indicates

that with such a small number of cases, one would expect to observe zero deaths 18.4 percent of the time just by chance.

The absence of any deaths among the 25 patients at Hospital B is more unusual. The expected number of deaths was 3.5, and the p-value indicates that one would expect to observe zero deaths only 1.9 percent of the time, if there were many identical hospitals. With 402 hospitals in the state included in the heart attack analysis, chance alone would account for 8 hospitals (1.9 percent times 402 = 7.6) having such extreme values just by chance.

In the *Users Guide*, both Hospital A and Hospital B would be labeled with a check mark in a box (☑). Neither hospital was significantly different than expected at a p-value of 0.01, but neither had any deaths.

Note that Hospital E, which ranks 5th in this community in terms of risk-adjusted rates, is the only one that would be labeled with a star (✪) in the *Users Guide*, as indicated by its lower p-value of 0.001. This illustrates the importance of sample size in determining statistical significance. Hospitals with relatively few patients cannot be identified as having significantly better than expected results, even with very few (or no) deaths, because such results may be due to chance.

At the other extreme of the table are Hospitals H and I with risk-adjusted death rates of 18.1 percent and 22.5 percent respectively. The very high death rate at Hospital I was based on 9 deaths among 29 patients, almost the opposite situation as Hospital B. The observed rate was more than 50 percent higher than the expected rate (31.0 percent vs. 20.0 percent). Even so, a result this extreme or worse is likely to occur just by chance about 9 times out of a hundred, as indicated by the p-value of 0.093. Even using the standard cut-off for a p-value of 0.05 or less, this is not a statistically significant result.

Why Ranking is Inappropriate

The dangers of ranking hospitals are illustrated by the lower and upper confidence bounds around each hospital's risk-adjusted death rate. These represent the bounds within which the true risk-adjusted rate would be expected to lie, given the role of chance and the observed rate. For example, Hospital B's true risk-adjusted rate might have been as high as 13.7 percent despite having zero deaths. If this were the case, Hospital B would rank seventh out of the nine hospitals in this community, instead of first or second. Even if everything remained the same in terms of the quality of care, numbers of patients, and average risk among these hospitals, a change in ranking this large could be observed just due to chance variation. Likewise, Hospital I, with the highest risk-adjusted death rate, could have a rate as low as 12.6 percent, which would rank it seventh in this community.

Potential problems in using rankings are exacerbated if one considers rankings based on the entire state. For the purposes of illustration, the nine hospitals in Table 2 were selected largely from the extremes of the death rate

distribution. In fact, the vast majority of hospitals are in the middle of that distribution. For example, Hospital A is among dozens that would rank "first in the state" because it had no deaths, yet Hospital G, which is near the middle in the overall list, might rank just as highly based on the lower confidence bound for its risk-adjusted rate. At the other extreme, the lower bound on the confidence interval for Hospital I, 12.6 percent, would rank it in the top quarter of hospitals in the state. In fact, because there are so many hospitals in the state and the confidence intervals are so wide, the range of possible ranks for many hospitals, due to chance alone, exceeds 100.

This example is meant to caution potential users of the data about the basic statistical issues involved in using such information. It is important to note that unusual events do happen by chance, so that a single set of results provides little information. However, if "unusual" results occur repeatedly, they may bear further investigation. Thus, hospitals with "extreme" results three years in a row are likely to have some consistent factors producing those results.

How These Data Might Be Used

It is important to recall that most statistical problems in interpreting these data arise when one focuses on death rates, because deaths are relatively unusual occurrences. Some other analyses would be less susceptible to chance variation and potentially more informative.

Examine Individual Hospitals

For example, one may ask whether special circumstances accounted for the very small number of AMI patients at Hospital A. With roughly one admission every other month, staff may not be ready for such emergency admissions. If Hospital A is in a very isolated area and is the only local provider, this low volume may be quite appropriate. The high expected death rates in Hospital A suggest that Hospital A's patients may be too high-risk to transfer elsewhere.

Another suggestion would be to examine hospitals with unusually low or high expected death rates. A hospital's expected death rate is a measure of the average severity-of-illness of its patients, compared with patients at other hospitals and statewide. Hospitals with low expected death rates may be referring high-risk patients from their emergency departments to other hospitals with more specialized facilities. In most areas, that would represent an appropriate referral practice. Alternatively, they may be failing to report some of their patient's risk factors. Hospitals with high expected death rates may be located near a retirement community or other high-risk population, may accept especially high-risk patients from other hospitals, or may over-report risk factors relative to other hospitals.

Examine Groups of Hospitals

One might also combine results for hospitals grouped in various ways. Grouping adds to the sample size and thus reduces the role of chance variation in explaining unusual outcomes. However, the grouping should be related to important underlying characteristics, such as the size of a hospital or its location. Hospitals also might be grouped according to health plan affiliations in a managed care environment. For readers' convenience, this volume includes a summary table for each county, which groups all of the hospitals in that county.

To illustrate grouping, consider the bottom part of Table 2, where the outcomes for all nine hospitals in a hypothetical community are aggregated. There were a total of 133 deaths among the 1,144 patients, while 175.1 were expected given their risk factors. This results in an overall death rate of 11.6

percent, compared to an expected rate of 15.3 percent. If the number of expected deaths is 5 or more, one can use the following formula to determine whether this is a statistically significant difference:

$$Z = I * (ABS(NDEAD - NEXP) - 0.5) / STDDEV$$
$$\text{where } I = (NDEAD - NEXP) / ABS (NDEAD - NEXP)$$

where NDEAD is the number of patients who died, NEXP is the number of patients expected to die, and STDDEV is the standard deviation around the observed number of deaths for the group of interest, in this case a hypothetical community. The detailed statistical tables list this standard deviation for each model and each hospital. To calculate the standard deviation for a group of hospitals, square the standard deviation for each hospital in the group (using either Model A or Model B). Then add the resulting variances. Finally, take the square root of the sum of the variances to obtain the standard deviation of the observed number of deaths for the entire group of hospitals.

The resulting figure, or Z-score, can be converted to a probability with the assistance of standard statistical tables for the normal distribution. Roughly speaking, Z-score values greater than 1.96 or less than -1.96 indicate that a result is statistically significant at the 0.05 level. This means these results are likely to occur by chance less than one time out of 20. The resulting Z-score for this set of 9 hospitals is -3.66, with a negative value indicating that the death rate was lower than expected. Standard statistical tables for the normal distribution indicate that a Z-score of -3.66 is associated with a probability of less than 0.001. This result is likely to occur by chance less than one out of a thousand times. Thus, overall outcomes in this community were significantly better than expected, even though two hospitals in this group had worse than expected outcomes.

Data File Record Layout

There are four data files, one for each individual year 1994-1996, and one for all three years together. The layout of each file is the same. These files are available on OSHPD's web page at www.oshpd.state.ca.us/hpp/chop.

COLUMN	COLUMN HEADING	DESCRIPTION
A	OSHPDID	Hospital's OSHPD ID Number
B	HOSPNAME	Hospital's Name
C	STAPER_A	Statewide Mortality Rate, Model A
D	STAPER_B	Statewide Mortality Rate, Model B
E	NUMCAS_A	Number of Cases Included, Model A
F	NUMCAS_B	Number of Cases Included, Model B
G	NUMMOR_A	Number of Observed Deaths, Model A
H	NUMMOR_B	Number of Observed Deaths, Model B
I	NUMEXP_A	Number of Expected Deaths, Model A
J	NUMEXP_B	Number of Expected Deaths, Model B
K	SDMOR_A	Standard Deviation of Observed Deaths, Model A
L	SDMOR_B	Standard Deviation of Observed Deaths, Model B
M	PERMOR_A	Observed Mortality Rate, Model A
N	PERMOR_B	Observed Mortality Rate, Model B
O	PEREXP_A	Expected Mortality Rate, Model A
P	PEREXP_B	Expected Mortality Rate, Model B
Q	RAMOR_A	Risk-Adjusted Mortality Rate, Model A
R	RAMOR_B	Risk-Adjusted Mortality Rate, Model B
S	LCI_A	Lower Bound of 95% Confidence Interval, Model A
T	LCI_B	Lower Bound of 95% Confidence Interval, Model B
U	UCI_A	Upper Bound of 95% Confidence Interval, Model A
V	UCI_B	Upper Bound of 95% Confidence Interval, Model B
W	ULPVAL_A	Upper/lower P Value, Model A
X	ULPVAL_B	Upper/lower P Value, Model B

Section

6

Hospital-Specific Tables and Graphs

The remainder of this volume consists of tables and graphs showing results for each individual hospital included in the study. Each hospital is on a separate page, listed in alphabetical order within counties. The first page of each county is a summary of the results from all hospitals in that county.

Alameda County Summary

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	12	5,178	647	676.7	22.7	12.5	13.1	12.2	11.3	13.0
	1994	13.0	12	1,879	260	258.1	14.0	13.8	13.7	13.1	11.7	14.4
	1995	12.8	12	1,641	197	207.5	12.6	12.0	12.6	12.1	10.6	13.7
	1996	12.3	12	1,658	190	211.2	12.7	11.5	12.7	11.1	9.7	12.6
Model B	All Years	12.7	12	5,127	642	673.2	20.9	12.5	13.1	12.1	11.3	12.9
	1994	12.9	12	1,870	260	260.7	12.9	13.9	13.9	12.9	11.6	14.1
	1995	12.8	12	1,624	195	207.1	11.5	12.0	12.8	12.1	10.7	13.5
	1996	12.4	12	1,633	187	205.4	11.7	11.5	12.6	11.3	9.9	12.6
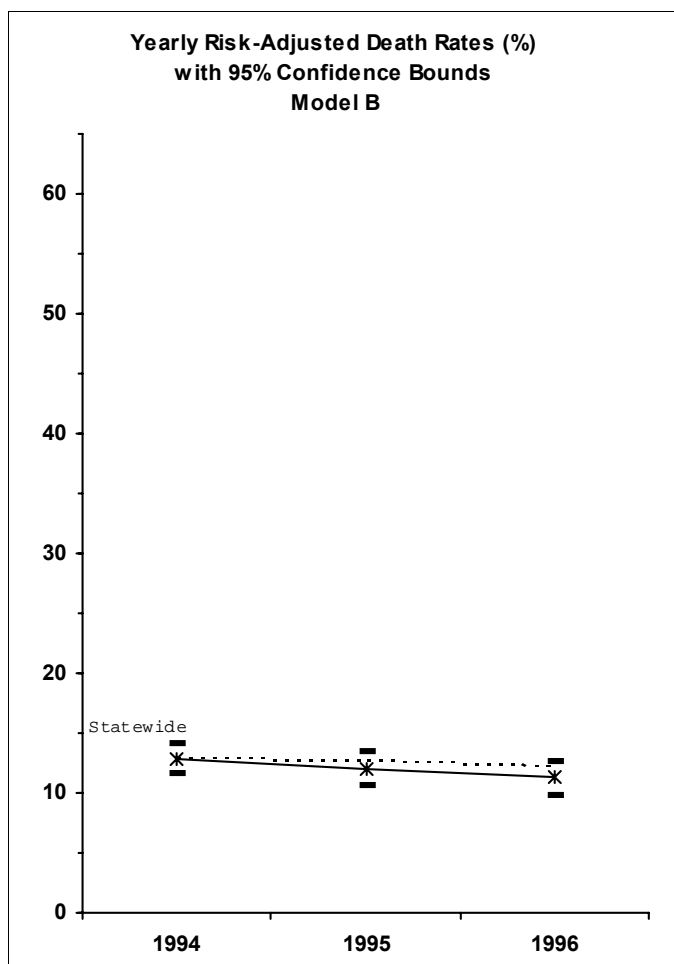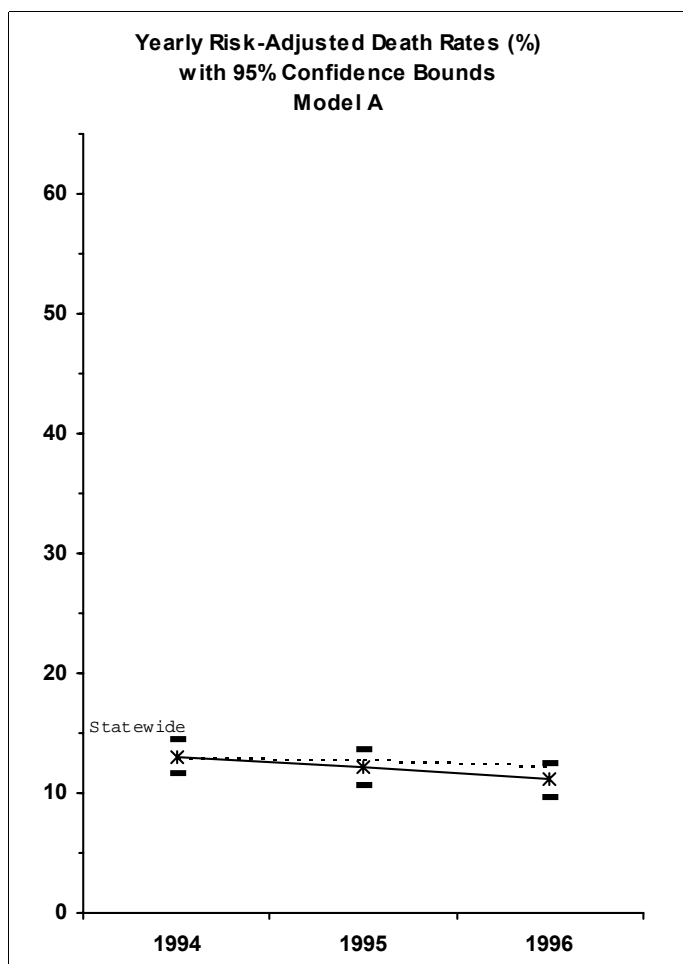
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Alameda County: Alameda County Medical Ctr-Fairmont Campus

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	5	2	0.5	0.6	40.0	9.6	53.1	19.6	86.5	0.071
	1994	13.0	3	1	0.3	0.5	33.3	10.6	40.7	0.0	82.3	0.292
	1995	12.8	2	1	0.2	0.4	50.0	8.0	79.9	21.1	100.0	0.157
	1996	12.3	0									
Model B	All Years	12.7	5	2	0.3	0.5	40.0	6.1	83.9	40.9	100.0	0.029
	1994	12.9	3	1	0.2	0.4	33.3	6.0	71.3	14.5	100.0	0.173
	1995	12.8	2	1	0.1	0.3	50.0	6.1	100.0	37.3	100.0	0.121
	1996	12.4	0									
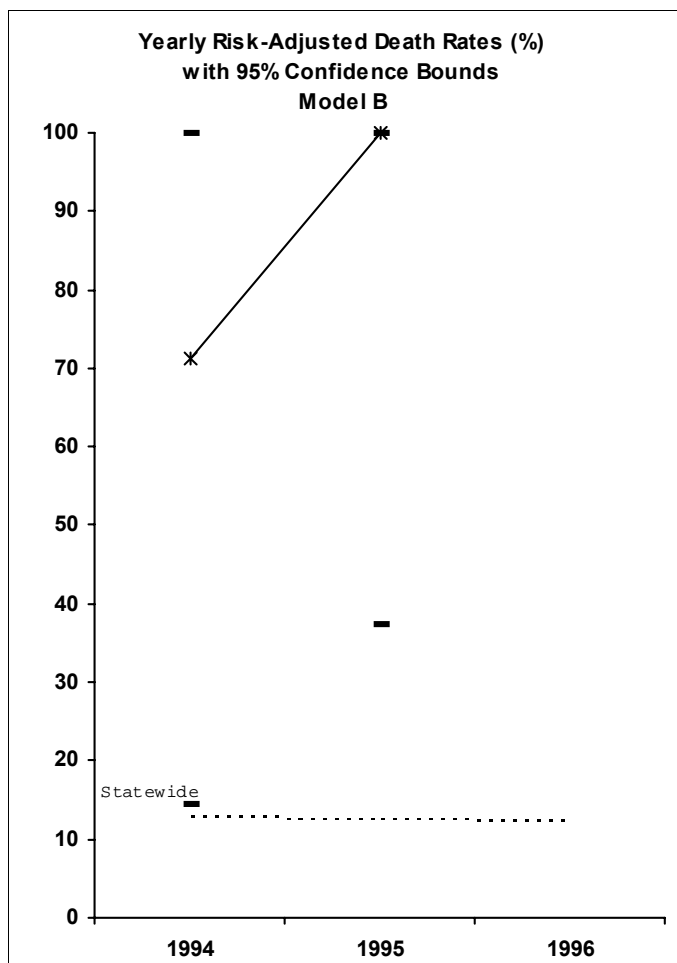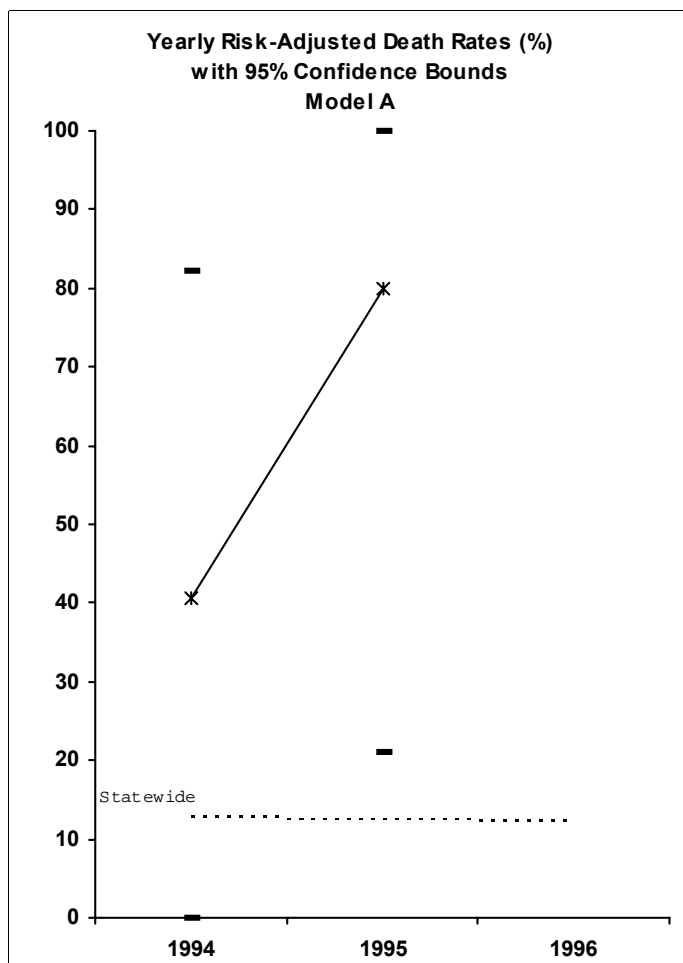
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Alameda County: Alameda County Medical Ctr-Highland Campus

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	247	26	30.6	4.8	10.5	12.4	10.8	6.9	14.7	0.197
	1994	13.0	91	7	10.3	2.8	7.7	11.4	8.8	1.9	15.7	0.157
	1995	12.8	68	8	9.3	2.6	11.8	13.7	11.0	3.9	18.0	0.386
	1996	12.3	88	11	11.0	2.9	12.5	12.5	12.4	6.0	18.8	0.550
Model B	All Years	12.7	242	25	41.0	4.6	10.3	16.9	7.8	5.0	10.5	0.000
	1994	12.9	91	7	13.4	2.7	7.7	14.7	6.8	1.7	11.9	0.011
	1995	12.8	67	7	11.3	2.4	10.4	16.9	7.9	2.6	13.2	0.047
	1996	12.4	84	11	16.3	2.8	13.1	19.4	8.4	4.1	12.6	0.043
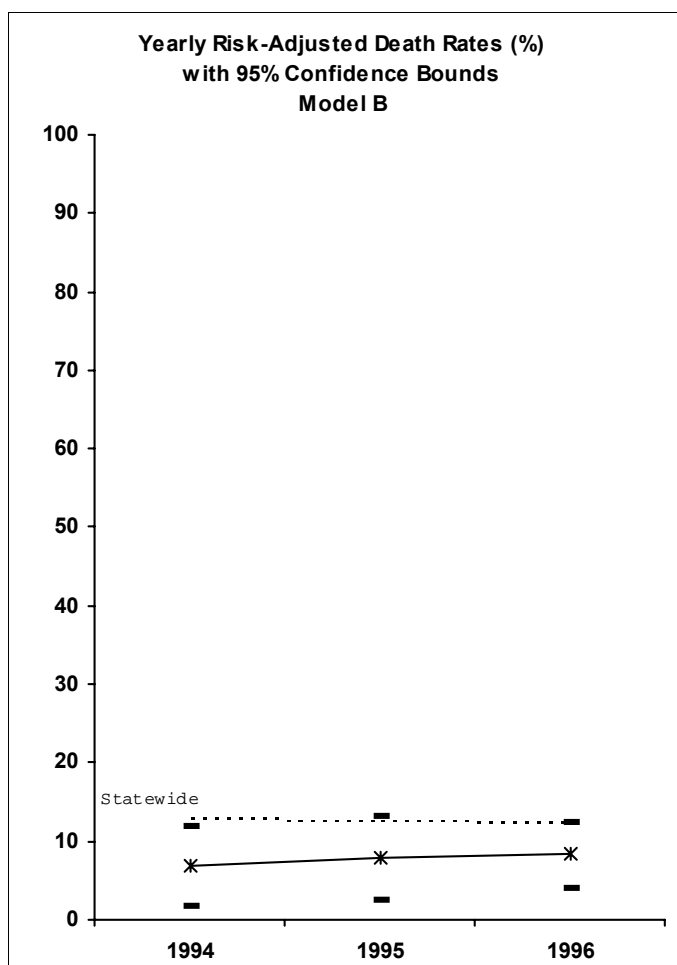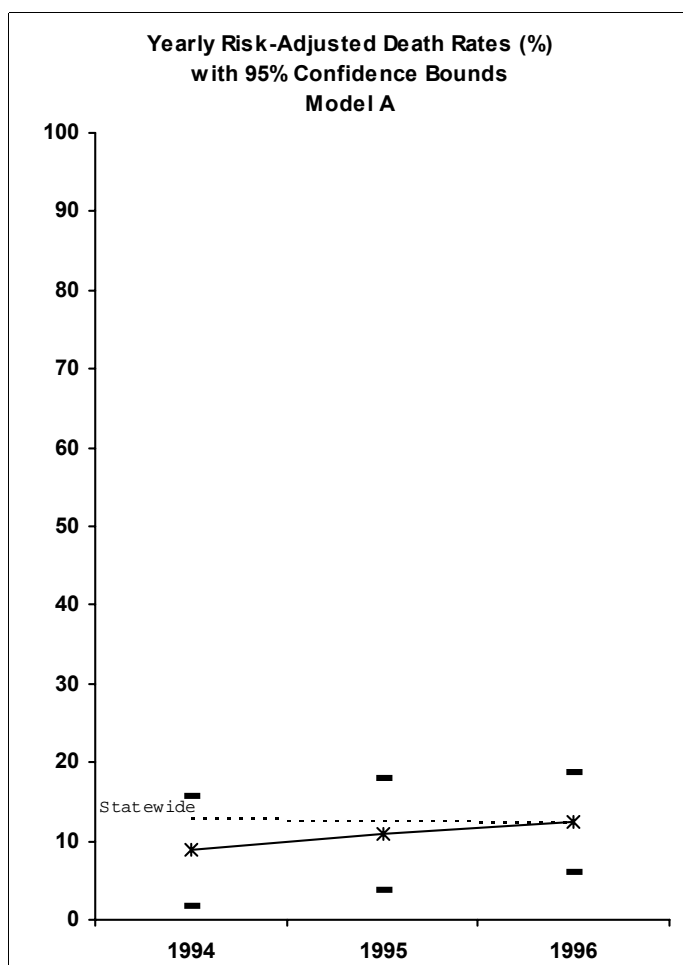
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Alameda County: Alameda Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	292	53	41.5	5.6	18.2	14.2	16.2	12.8	19.6	0.028
	1994	13.0	105	24	15.1	3.4	22.9	14.4	20.6	15.0	26.3	0.008
	1995	12.8	98	16	14.2	3.3	16.3	14.5	14.4	8.6	20.2	0.341
	1996	12.3	89	13	12.2	3.1	14.6	13.7	13.1	7.0	19.3	0.450
Model B	All Years	12.7	284	53	41.8	5.2	18.7	14.7	16.1	13.0	19.2	0.022
	1994	12.9	103	24	15.9	3.1	23.3	15.5	19.5	14.5	24.5	0.010
	1995	12.8	95	16	14.7	3.0	16.8	15.4	14.0	8.9	19.1	0.380
	1996	12.4	86	13	11.2	2.9	15.1	13.0	14.4	8.2	20.6	0.314
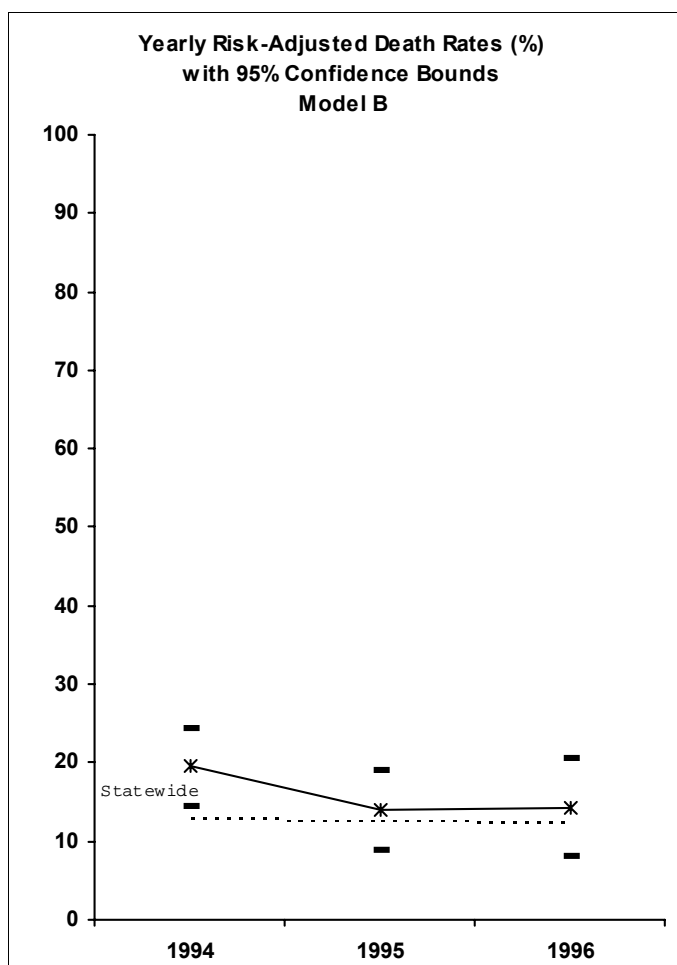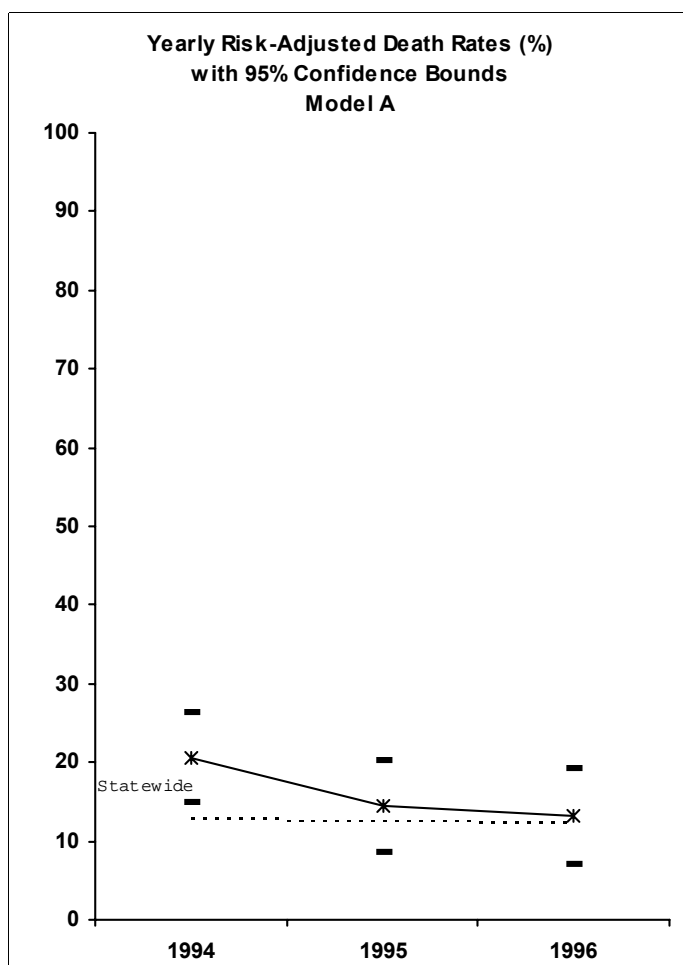
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Alameda County: Alta Bates Medical Center-Ashby Campus

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	292	39	54.9	6.2	13.4	18.8	9.0	6.2	11.9	0.005
	1994	13.0	174	26	33.3	4.9	14.9	19.1	10.1	6.4	13.8	0.078
	1995	Excluded										
	1996	12.3	118	13	21.6	3.9	11.0	18.3	7.4	3.0	11.8	0.016
Model B	All Years	12.7	289	39	53.0	5.7	13.5	18.4	9.3	6.7	12.0	0.007
	1994	12.9	174	26	33.4	4.5	14.9	19.2	10.1	6.7	13.4	0.057
	1995	Excluded										
	1996	12.4	115	13	19.6	3.6	11.3	17.0	8.2	3.8	12.6	0.039
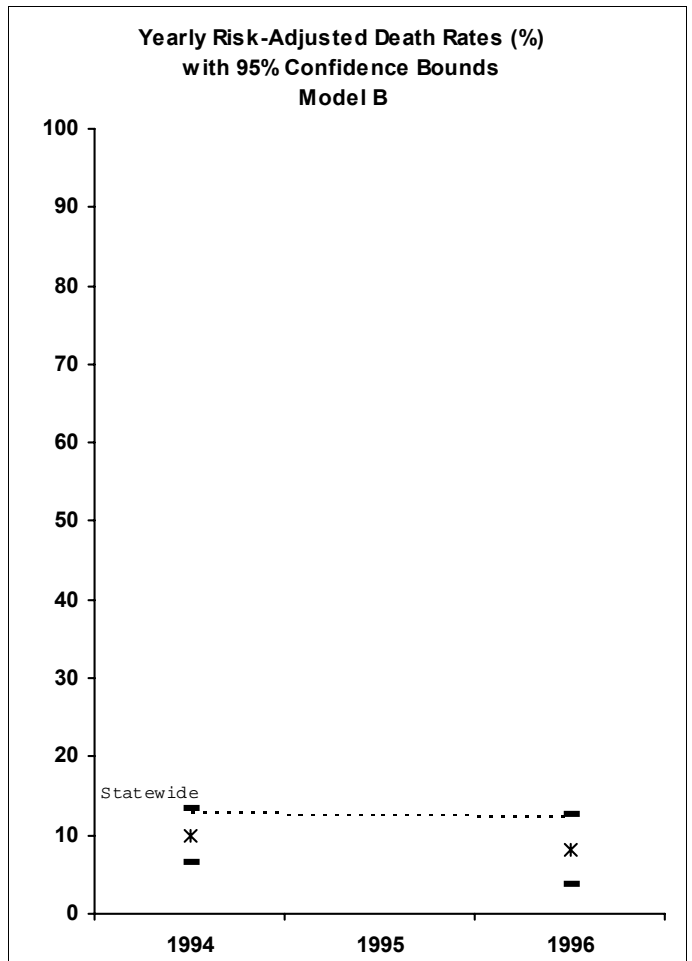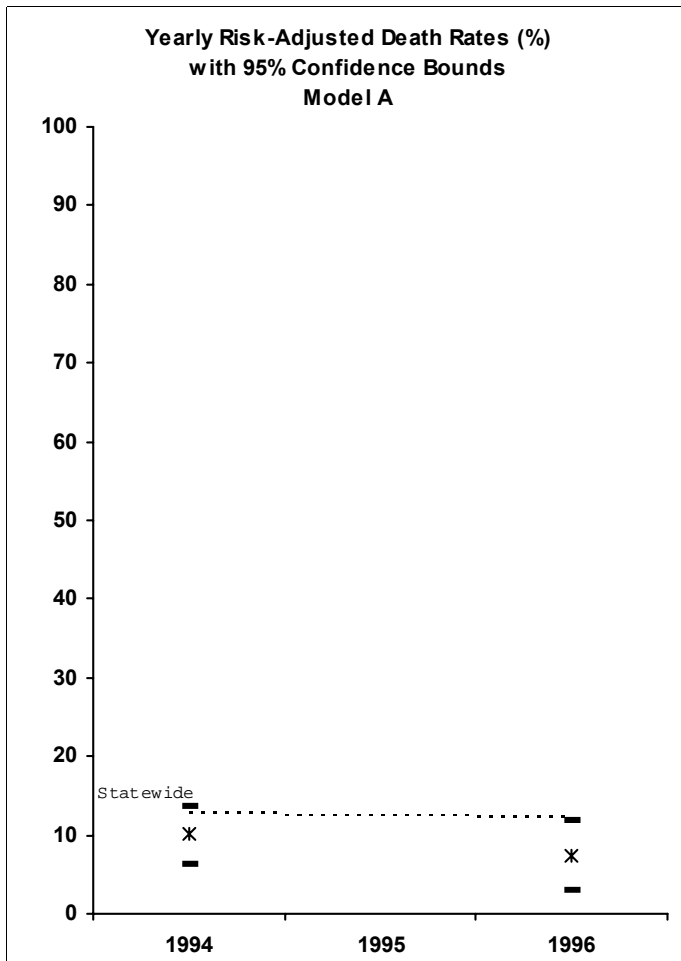
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Alameda County: Eden Medical Center

| | | Statewide Death Rate (%) | Number of Cases Included | Number of Observed Deaths | Number of Expected Deaths | Standard Deviation of Observed Deaths | Observed Death Rate (%) | Expected Death Rate (%) | Risk-Adjusted Death Rate (%) | Risk-Adjusted Death Rate 95% Confidence Bounds | | Probability This Rate Occurred by Chance |
										Lower	Upper	
Model A	All Years	12.7	373	52	52.4	6.3	13.9	14.1	12.6	9.6	15.6	0.510
	1994	13.0	140	20	19.2	3.8	14.3	13.7	13.5	8.4	18.6	0.456
	1995	12.8	114	19	16.2	3.5	16.7	14.2	15.0	9.5	20.4	0.255
	1996	12.3	119	13	17.0	3.6	10.9	14.3	9.4	4.4	14.5	0.160
Model B	All Years	12.7	373	52	52.2	5.7	13.9	14.0	12.7	9.9	15.4	0.527
	1994	12.9	140	20	20.3	3.6	14.3	14.5	12.7	8.3	17.2	0.528
	1995	12.8	114	19	16.6	3.1	16.7	14.5	14.7	9.9	19.5	0.263
	1996	12.4	119	13	15.3	3.2	10.9	12.9	10.5	5.5	15.5	0.289

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Alameda County: Kaiser Foundation Hospital-Hayward‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	875	75	94.6	8.6	8.6	10.8	10.1	7.8	12.3	0.011
	1994	13.0	295	33	35.1	5.2	11.2	11.9	12.2	8.4	16.0	0.387
	1995	12.8	301	24	29.4	4.8	8.0	9.8	10.5	6.3	14.6	0.156
	1996	12.3	279	18	30.2	4.9	6.5	10.8	7.4	3.5	11.3	0.006
Model B	All Years	12.7	854	74	91.7	7.9	8.7	10.7	10.3	8.1	12.4	0.013
	1994	12.9	293	33	34.3	4.8	11.3	11.7	12.4	8.9	16.0	0.442
	1995	12.8	290	23	29.0	4.4	7.9	10.0	10.2	6.4	14.0	0.102
	1996	12.4	271	18	28.4	4.5	6.6	10.5	7.8	4.0	11.6	0.010

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Alameda County: Kaiser Foundation Hospital-Oakland Campus‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	572	41	71.4	7.4	7.2	12.5	7.3	4.7	9.9	0.000
	1994	13.0	203	20	25.9	4.4	9.9	12.8	10.0	5.7	14.4	0.109
	1995	12.8	181	11	24.0	4.3	6.1	13.3	5.9	1.4	10.3	0.001
	1996	12.3	188	10	21.5	4.1	5.3	11.4	5.8	1.2	10.3	0.002
Model B	All Years	12.7	572	41	60.4	6.4	7.2	10.6	8.6	6.0	11.3	0.001
	1994	12.9	203	20	23.3	4.0	9.9	11.5	11.1	6.8	15.4	0.246
	1995	12.8	181	11	19.3	3.7	6.1	10.7	7.3	2.5	12.1	0.013
	1996	12.4	188	10	17.8	3.5	5.3	9.5	6.9	2.2	11.7	0.013

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

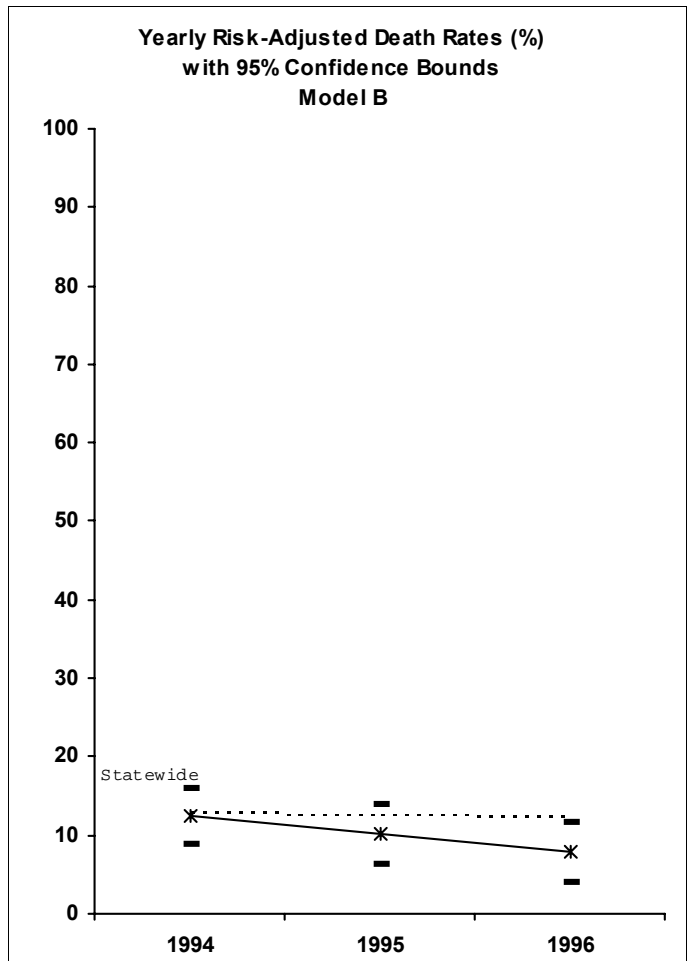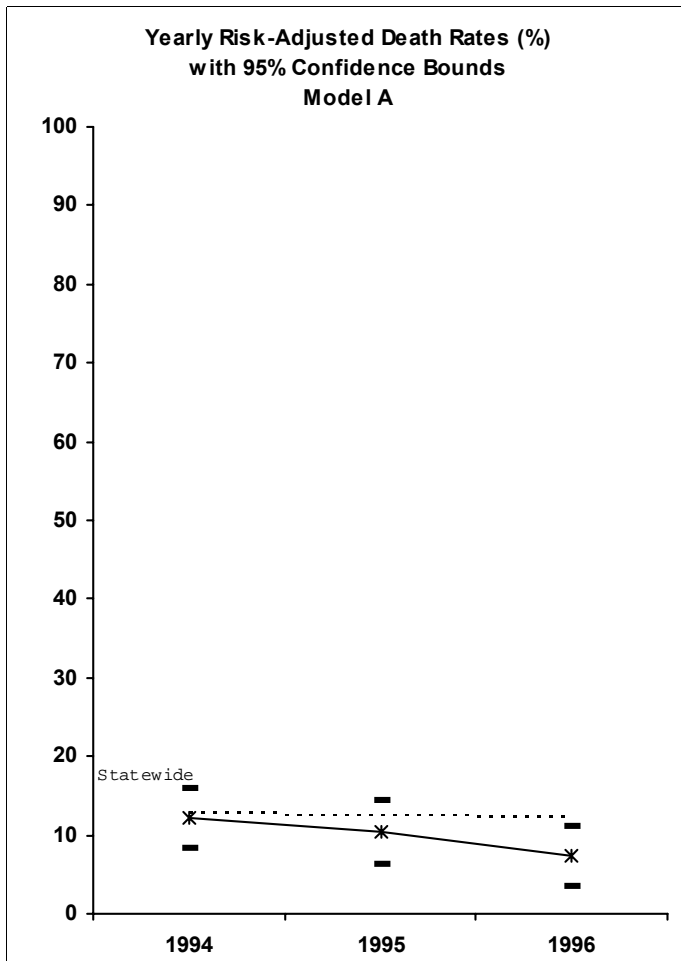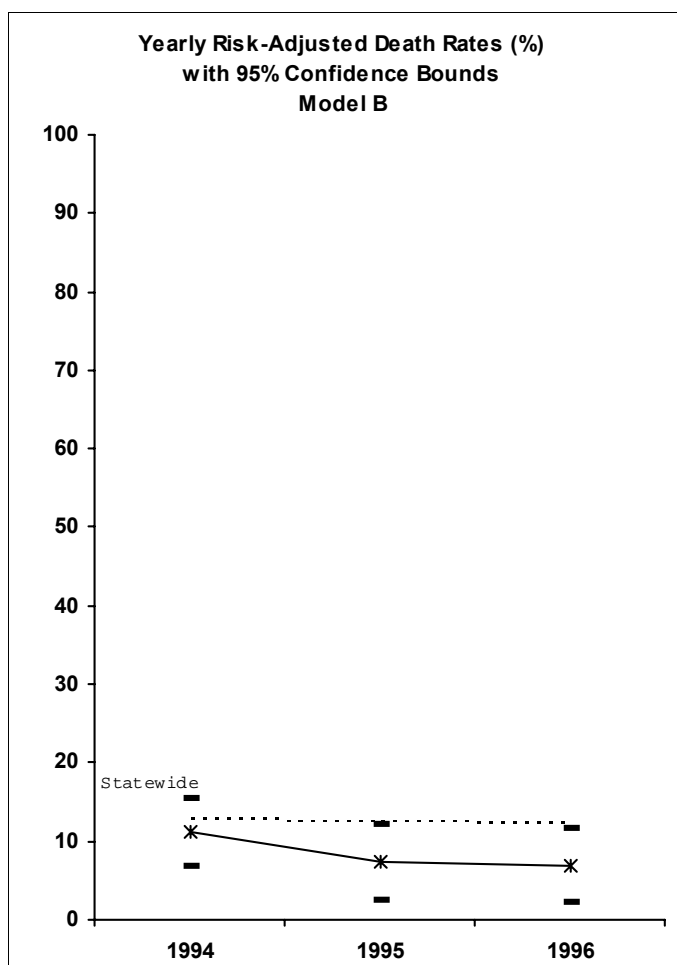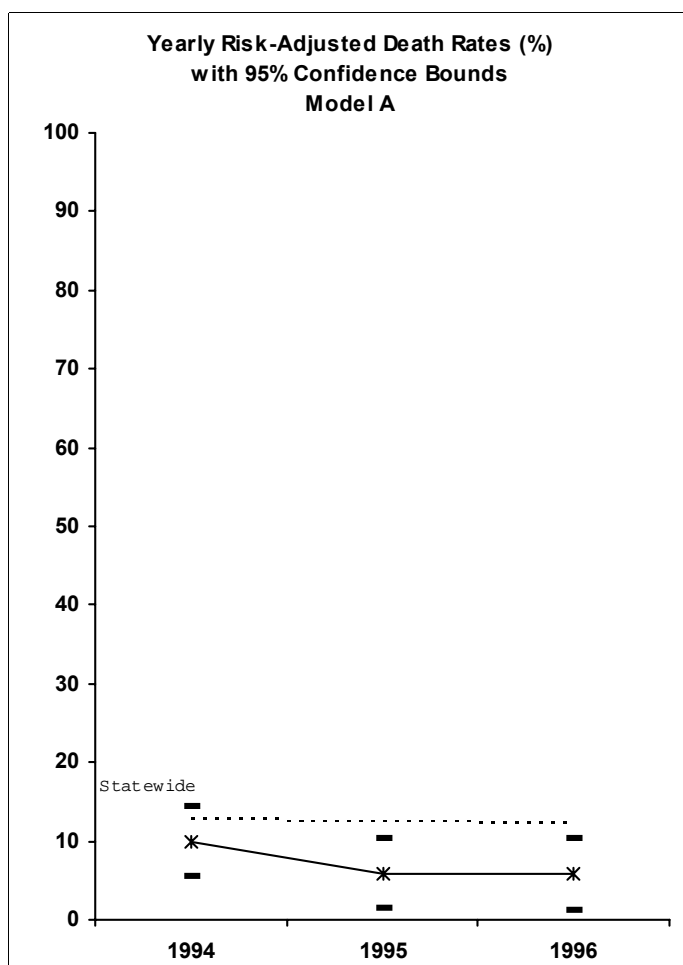**Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B**

‡ Hospital sent comment letter

Office of Statewide Health Planning and Development
California Hospital Outcomes Project

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Alameda County: San Leandro Hospital‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	381	75	57.5	6.6	19.7	15.1	16.6	13.7	19.4	0.006
	1994	13.0	133	23	21.9	4.1	17.3	16.5	13.6	8.9	18.3	0.432
	1995	12.8	151	33	22.5	4.1	21.9	14.9	18.8	14.2	23.4	0.010
	1996	12.3	97	19	13.2	3.2	19.6	13.6	17.8	12.0	23.7	0.051
Model B	All Years	12.7	379	75	67.3	6.3	19.8	17.8	14.2	11.8	16.5	0.127
	1994	12.9	133	23	24.3	3.9	17.3	18.3	12.2	8.2	16.3	0.423
	1995	12.8	151	33	27.3	3.9	21.9	18.1	15.5	11.9	19.1	0.094
	1996	12.4	95	19	15.7	3.0	20.0	16.5	14.9	10.3	19.6	0.175
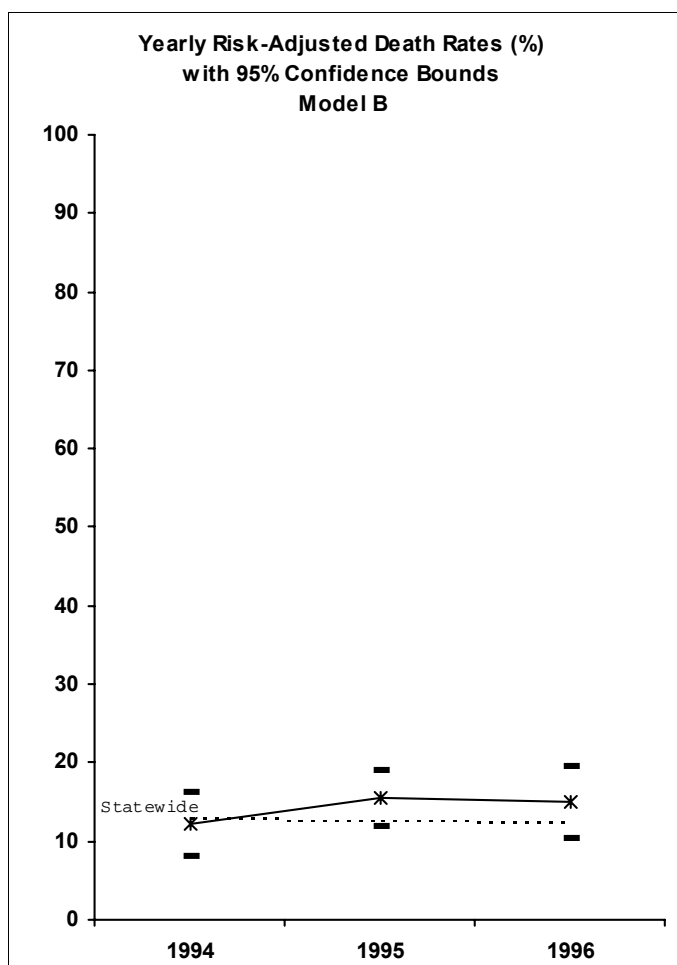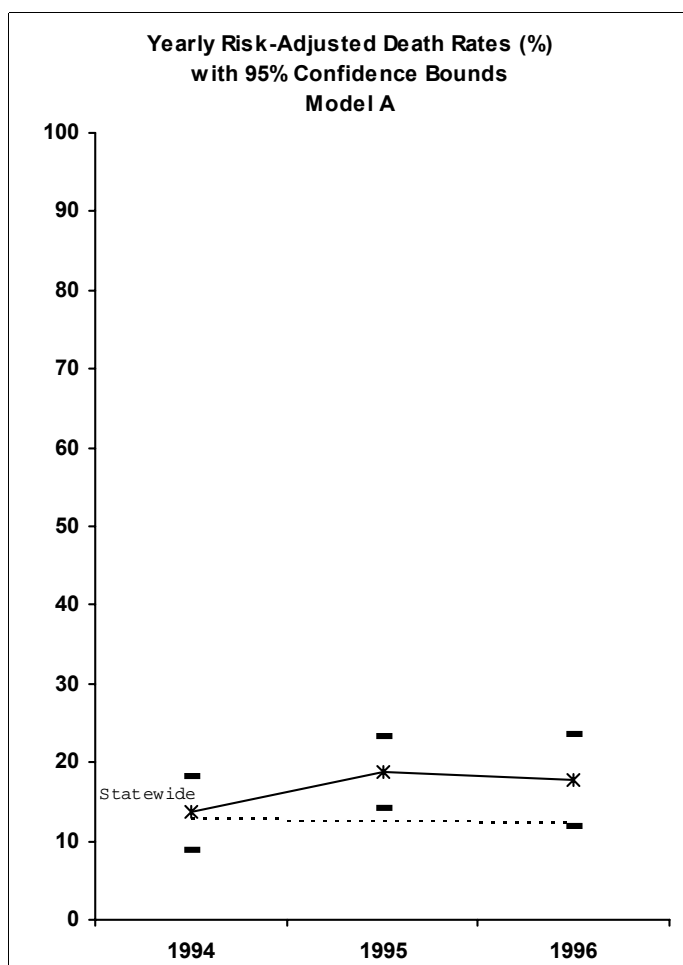
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Alameda County: St. Rose Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	298	37	38.2	5.5	12.4	12.8	12.3	8.8	15.9	0.458
	1994	13.0	120	21	16.3	3.6	17.5	13.6	16.7	11.1	22.3	0.120
	1995	12.8	98	8	10.9	3.0	8.2	11.1	9.4	2.5	16.3	0.216
	1996	12.3	80	8	11.0	2.9	10.0	13.8	9.0	2.7	15.2	0.188
Model B	All Years	12.7	298	37	36.6	5.0	12.4	12.3	12.9	9.5	16.3	0.497
	1994	12.9	120	21	16.9	3.4	17.5	14.1	16.0	11.0	21.1	0.145
	1995	12.8	98	8	9.5	2.7	8.2	9.7	10.8	3.8	17.8	0.367
	1996	12.4	80	8	10.1	2.6	10.0	12.7	9.8	3.6	16.0	0.271
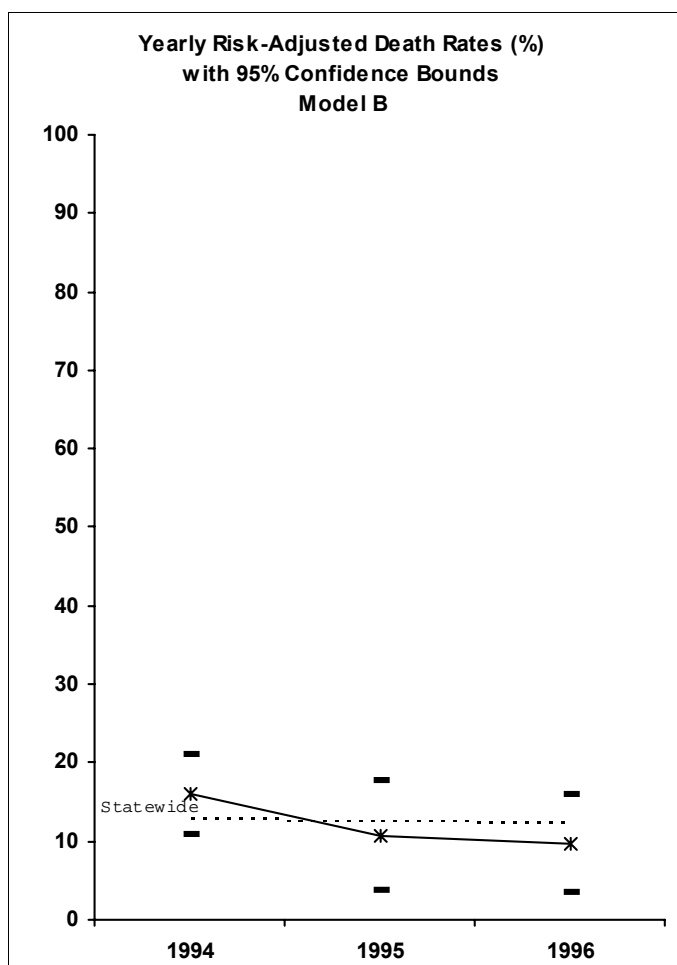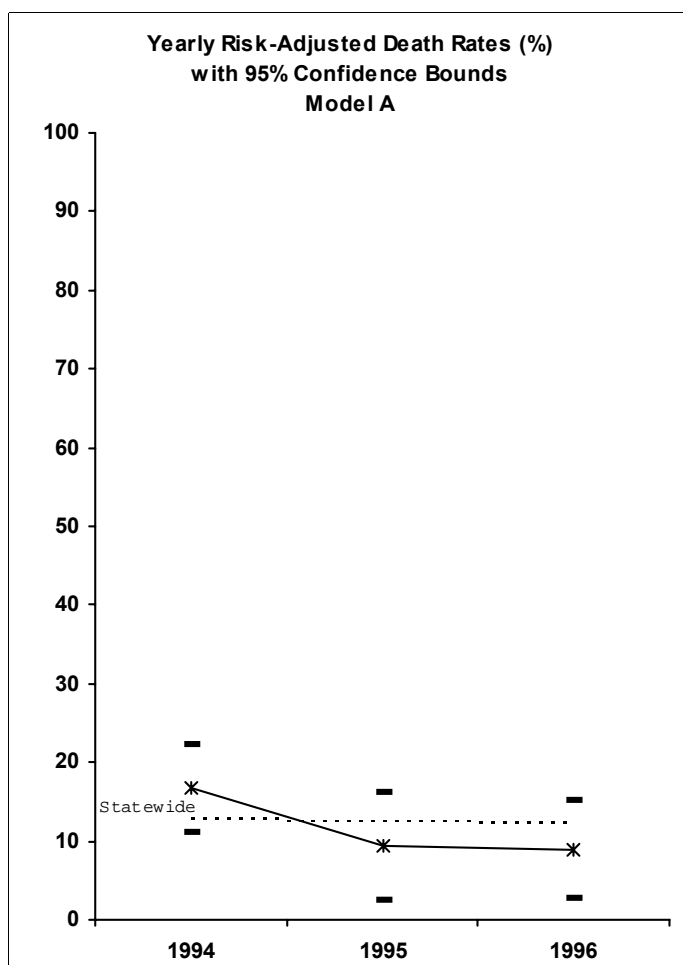
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Alameda County: Summit Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	718	102	99.8	8.7	14.2	13.9	13.0	10.8	15.2	0.421
	1994	13.0	220	35	30.8	4.9	15.9	14.0	14.7	10.7	18.7	0.223
	1995	12.8	258	31	37.2	5.3	12.0	14.4	10.7	7.1	14.2	0.141
	1996	12.3	240	36	31.8	5.0	15.0	13.3	14.0	10.2	17.7	0.228
Model B	All Years	12.7	710	102	95.7	8.1	14.4	13.5	13.6	11.4	15.7	0.233
	1994	12.9	215	35	27.2	4.3	16.3	12.7	16.6	12.6	20.6	0.050
	1995	12.8	256	31	36.5	4.9	12.1	14.3	10.9	7.5	14.3	0.156
	1996	12.4	239	36	31.9	4.7	15.1	13.4	13.9	10.4	17.5	0.221
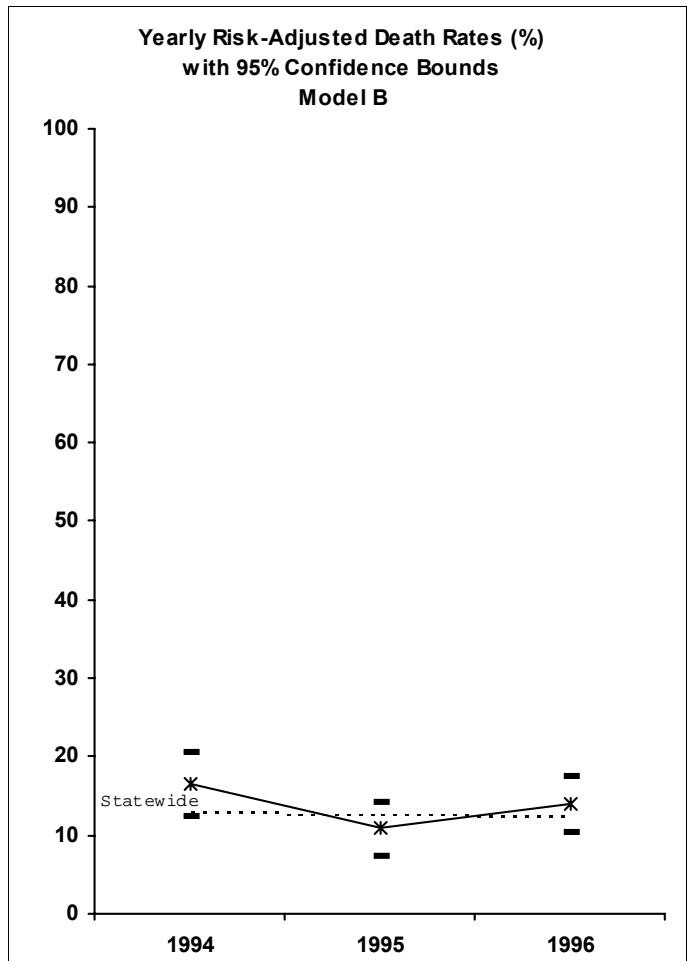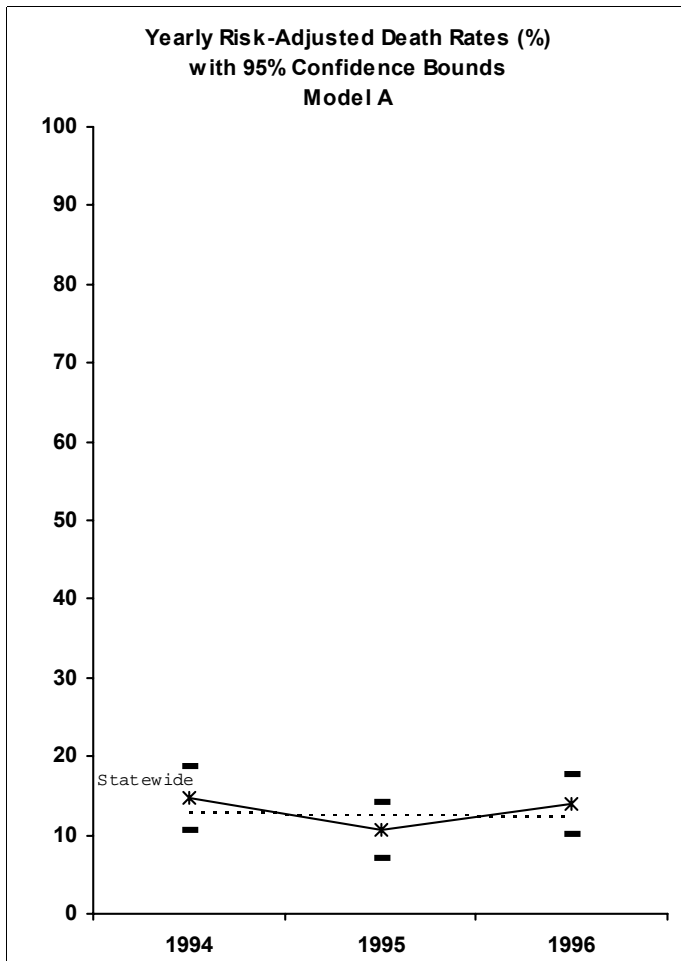
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Alameda County: Valley Memorial Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	384	56	42.8	5.8	14.6	11.1	16.6	13.3	20.0	0.016
	1994	13.0	131	18	14.3	3.3	13.7	10.9	16.4	10.4	22.3	0.164
	1995	12.8	128	17	13.8	3.3	13.3	10.8	15.7	9.7	21.7	0.209
	1996	12.3	125	21	14.7	3.4	16.8	11.8	17.6	12.1	23.2	0.048
Model B	All Years	12.7	381	53	42.8	5.4	13.9	11.2	15.8	12.6	18.9	0.038
	1994	12.9	131	18	15.8	3.2	13.7	12.1	14.7	9.6	19.8	0.292
	1995	12.8	128	17	14.0	3.1	13.3	10.9	15.6	10.0	21.1	0.204
	1996	12.4	122	18	13.0	3.1	14.8	10.6	17.2	11.4	23.0	0.074
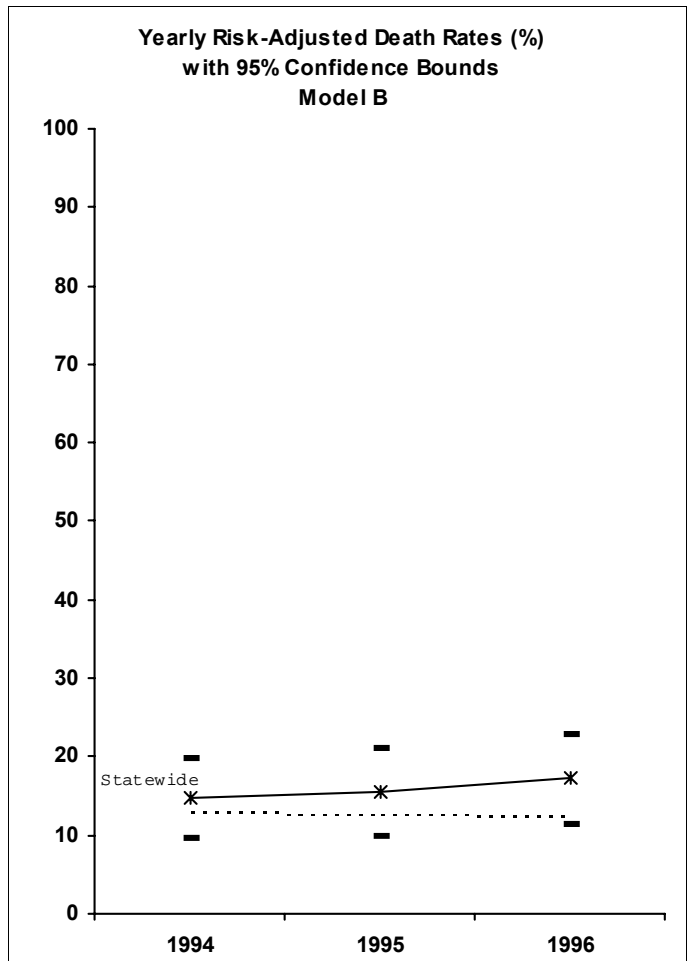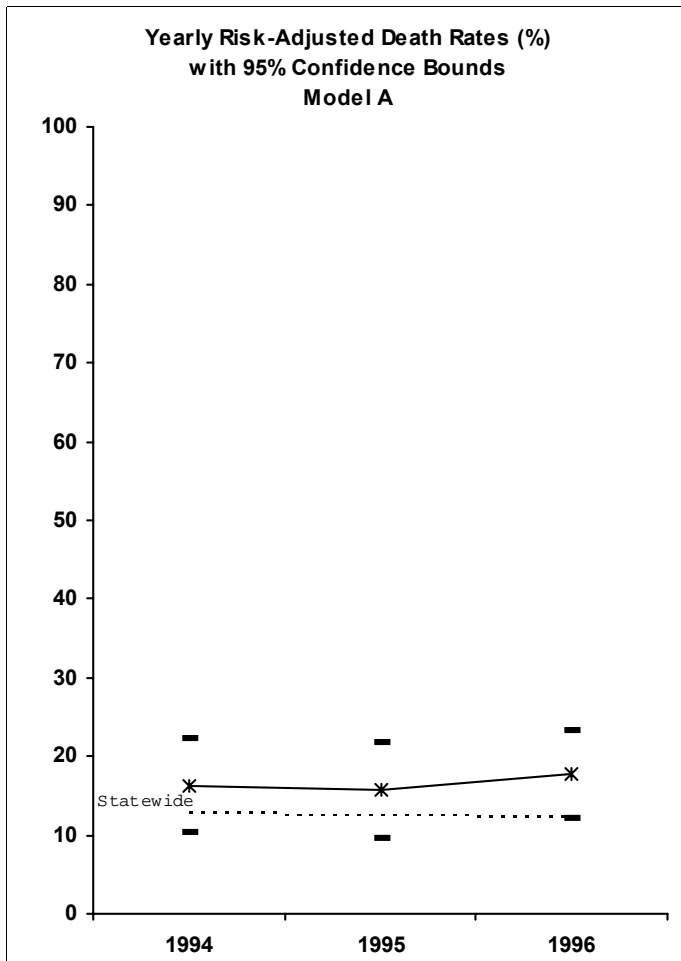
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Alameda County: Washington Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	741	89	92.3	8.3	12.0	12.5	12.3	10.0	14.5	0.371
	1994	13.0	264	32	35.6	5.1	12.1	13.5	11.7	8.0	15.3	0.279
	1995	12.8	242	29	29.8	4.8	12.0	12.3	12.4	8.4	16.5	0.482
	1996	12.3	235	28	27.0	4.6	11.9	11.5	12.8	8.7	16.9	0.444
Model B	All Years	12.7	740	89	90.6	7.7	12.0	12.2	12.5	10.4	14.6	0.449
	1994	12.9	264	32	35.6	4.7	12.1	13.5	11.6	8.3	15.0	0.260
	1995	12.8	242	29	28.9	4.3	12.0	11.9	12.9	9.1	16.6	0.530
	1996	12.4	234	28	26.1	4.2	12.0	11.1	13.3	9.4	17.2	0.360

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Amador County Summary

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	1	217	31	24.1	4.4	14.3	11.1	16.3	11.8	20.9
	1994	13.0	1	60	7	6.3	2.2	11.7	10.5	14.4	5.4	23.4
	1995	12.8	1	77	15	9.1	2.7	19.5	11.8	21.2	13.7	28.6
	1996	12.3	1	80	9	8.8	2.7	11.3	10.9	12.7	5.4	20.0
Model B	All Years	12.7	1	216	30	28.9	4.3	13.9	13.4	13.2	9.5	16.9
	1994	12.9	1	60	7	8.1	2.3	11.7	13.6	11.1	4.0	18.2
	1995	12.8	1	76	14	10.2	2.5	18.4	13.5	17.5	11.3	23.8
	1996	12.4	1	80	9	10.6	2.6	11.3	13.2	10.5	4.6	16.5
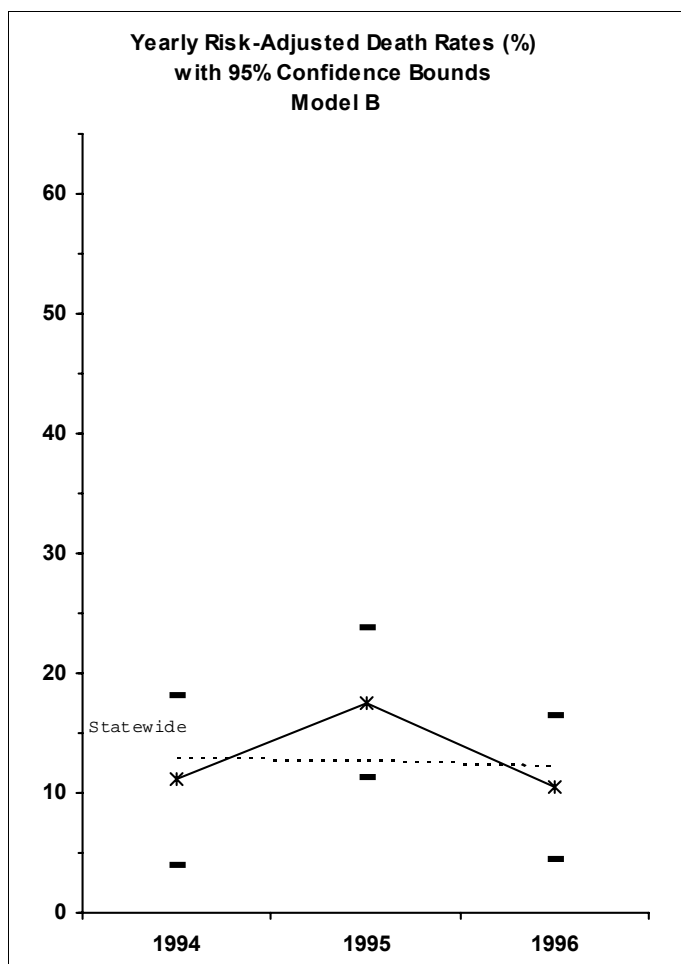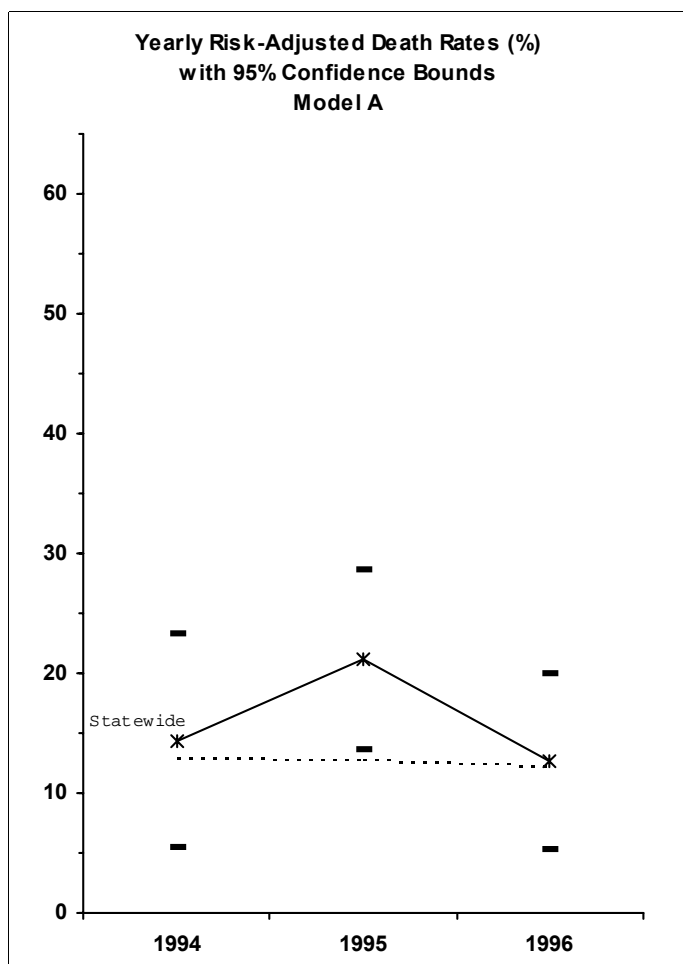
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Amador County: Sutter Amador Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	217	31	24.1	4.4	14.3	11.1	16.3	11.8	20.9	0.076
	1994	13.0	60	7	6.3	2.2	11.7	10.5	14.4	5.4	23.4	0.446
	1995	12.8	77	15	9.1	2.7	19.5	11.8	21.2	13.7	28.6	0.027
	1996	12.3	80	9	8.8	2.7	11.3	10.9	12.7	5.4	20.0	0.522
Model B	All Years	12.7	216	30	28.9	4.3	13.9	13.4	13.2	9.5	16.9	0.442
	1994	12.9	60	7	8.1	2.3	11.7	13.6	11.1	4.0	18.2	0.401
	1995	12.8	76	14	10.2	2.5	18.4	13.5	17.5	11.3	23.8	0.102
	1996	12.4	80	9	10.6	2.6	11.3	13.2	10.5	4.6	16.5	0.348

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

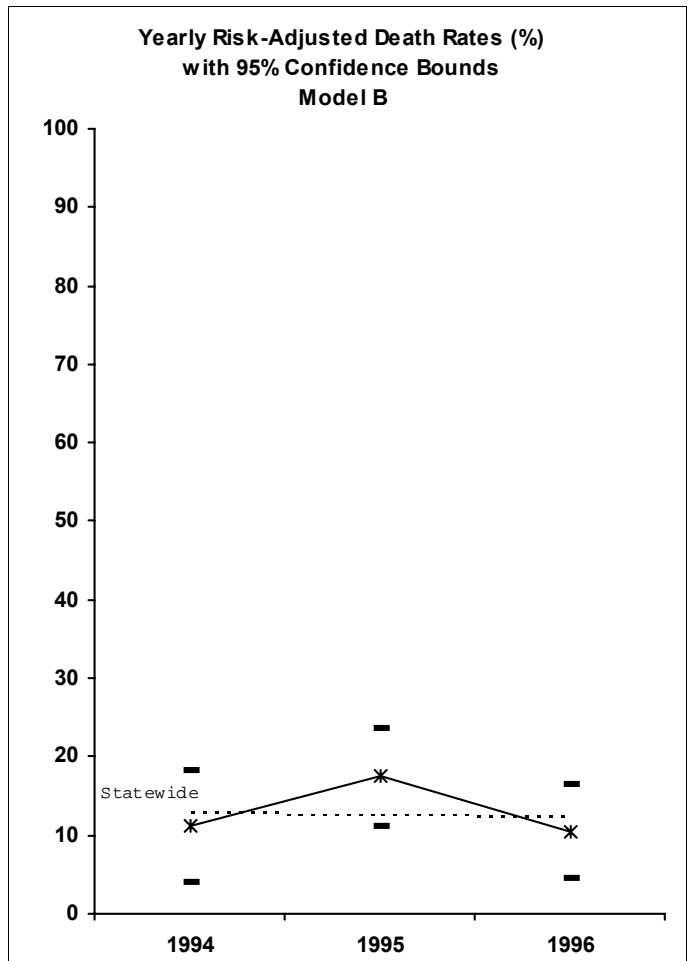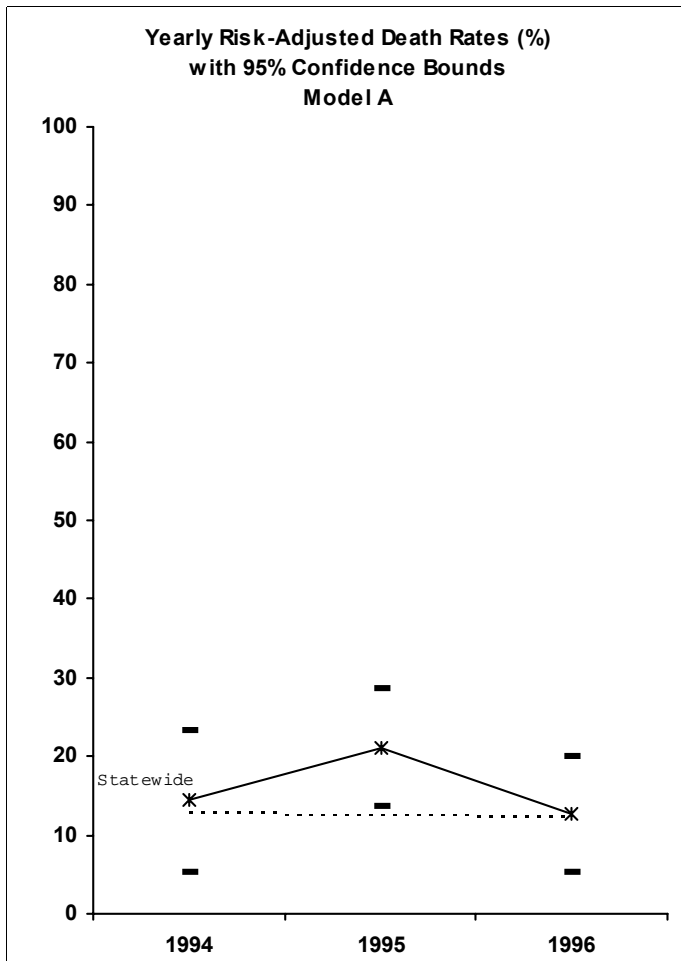Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Butte County Summary												
Model A	All Years	12.7	5	1,270	157	175.7	11.6	12.4	13.8	11.4	9.7	13.0
	1994	13.0	5	439	58	63.3	6.9	13.2	14.4	11.9	9.1	14.7
	1995	12.8	5	401	50	59.4	6.7	12.5	14.8	10.8	8.0	13.6
	1996	12.3	5	430	49	53.0	6.4	11.4	12.3	11.4	8.5	14.4
Model B	All Years	12.7	5	1,270	157	164.2	10.6	12.4	12.9	12.2	10.5	13.8
	1994	12.9	5	439	58	60.1	6.4	13.2	13.7	12.5	9.8	15.2
	1995	12.8	5	401	50	53.3	6.0	12.5	13.3	12.0	9.2	14.8
	1996	12.4	5	430	49	50.8	5.9	11.4	11.8	11.9	9.1	14.7
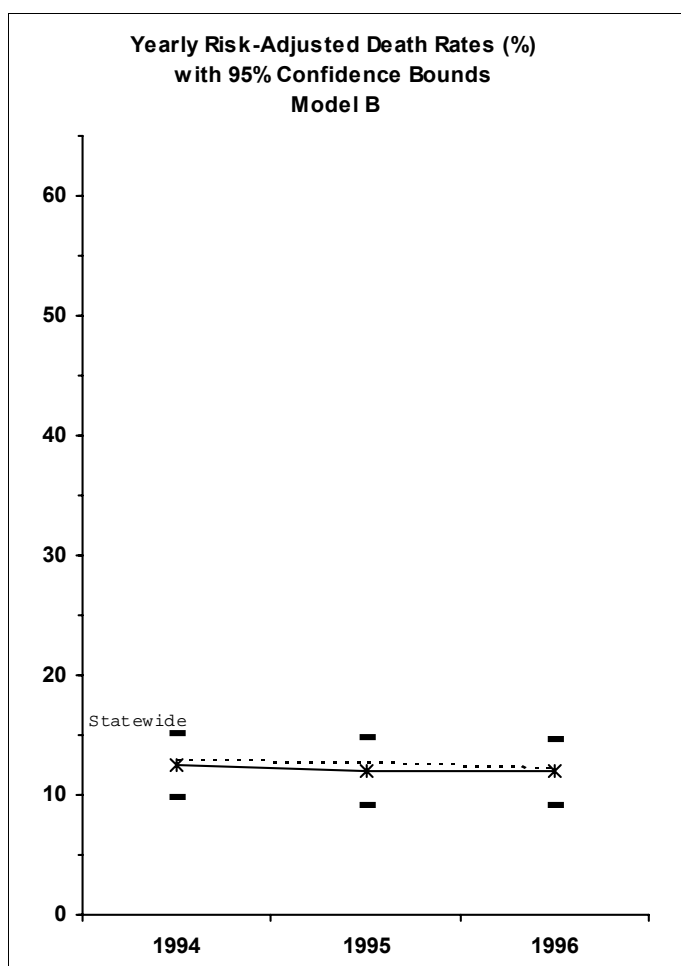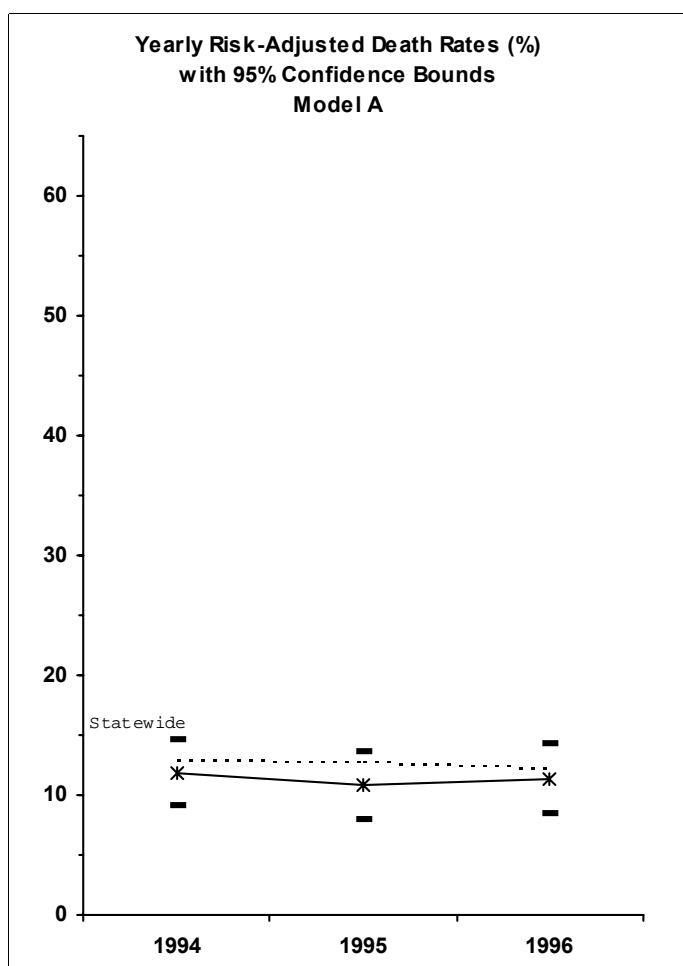
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Butte County: Biggs Gridley Memorial Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	44	8	8.7	2.5	18.2	19.7	11.7	4.7	18.8	0.483
	1994	13.0	17	5	3.7	1.6	29.4	21.5	17.7	6.6	28.8	0.288
	1995	12.8	15	3	2.7	1.4	20.0	18.3	14.0	1.3	26.7	0.548
	1996	12.3	12	0	2.3	1.3	0.0	19.0	0.0	0.0	13.3	0.062
Model B	All Years	12.7	44	8	7.2	2.2	18.2	16.4	14.1	6.4	21.8	0.434
	1994	12.9	17	5	3.3	1.5	29.4	19.4	19.6	8.3	30.8	0.201
	1995	12.8	15	3	2.1	1.2	20.0	13.8	18.5	3.6	33.5	0.342
	1996	12.4	12	0	1.8	1.2	0.0	15.2	0.0	0.0	15.3	0.116
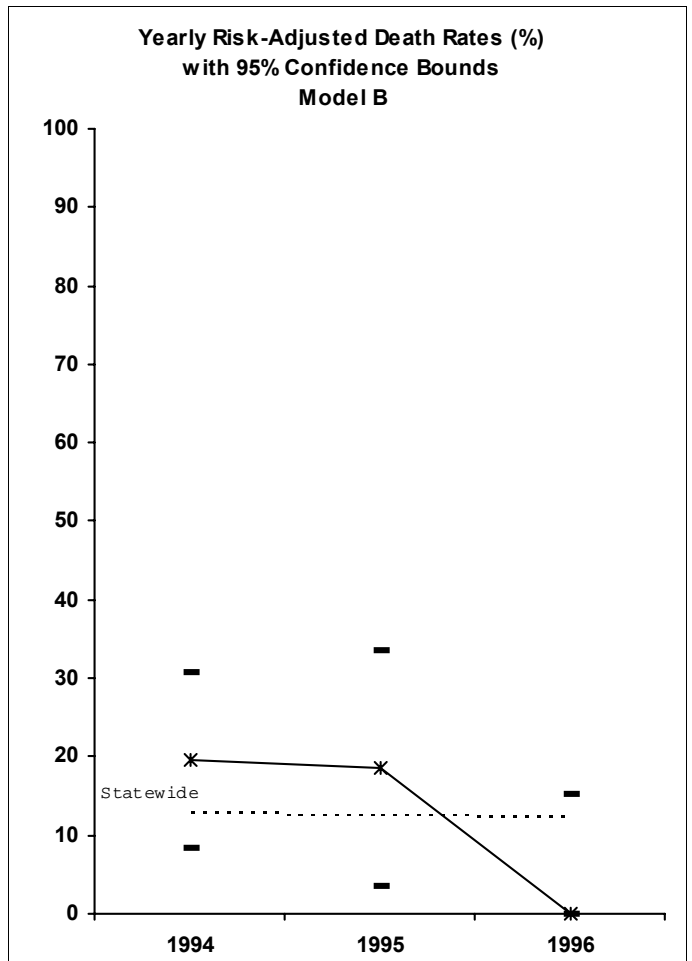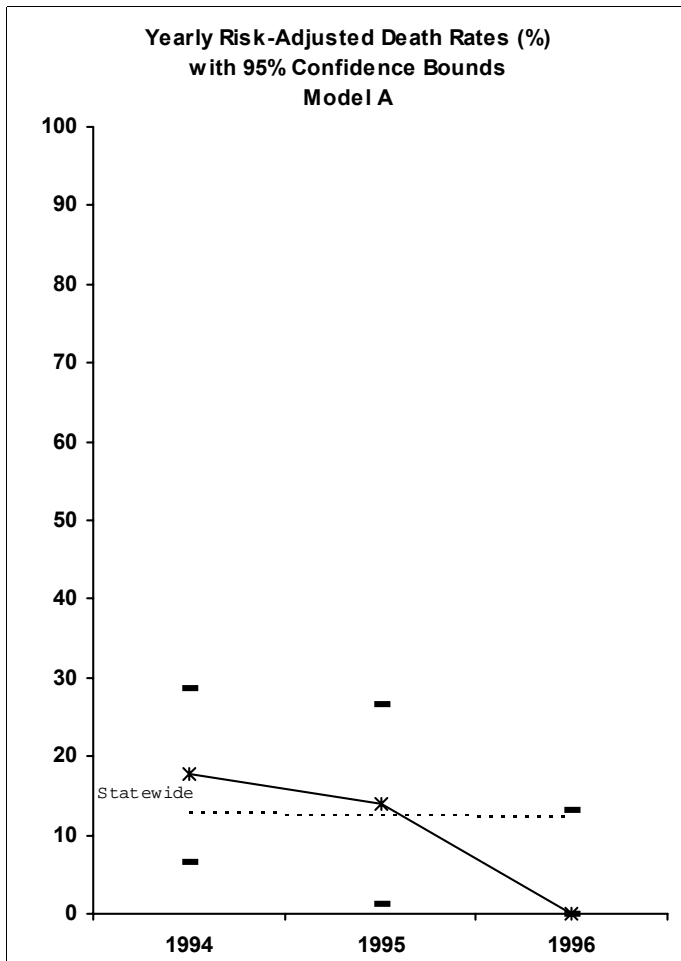
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Butte County: Chico Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	45	8	7.0	2.3	17.8	15.5	14.6	6.2	23.0	0.395
	1994	13.0	14	3	1.7	1.2	21.4	12.3	22.5	4.9	40.1	0.241
	1995	12.8	16	2	2.6	1.4	12.5	16.1	10.0	0.0	23.8	0.509
	1996	12.3	15	3	2.7	1.4	20.0	17.8	13.9	1.0	26.7	0.522
Model B	All Years	12.7	45	8	6.1	2.1	17.8	13.6	16.6	7.9	25.3	0.250
	1994	12.9	14	3	2.0	1.2	21.4	14.4	19.2	4.5	33.9	0.320
	1995	12.8	16	2	2.1	1.3	12.5	12.9	12.4	0.0	27.7	0.661
	1996	12.4	15	3	2.0	1.3	20.0	13.5	18.3	3.1	33.5	0.329
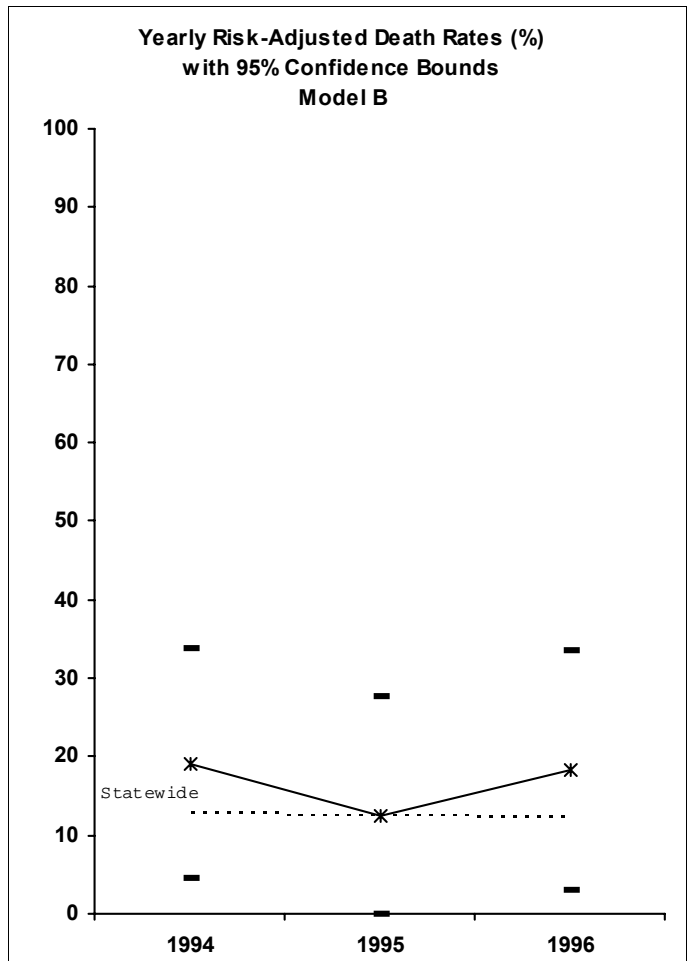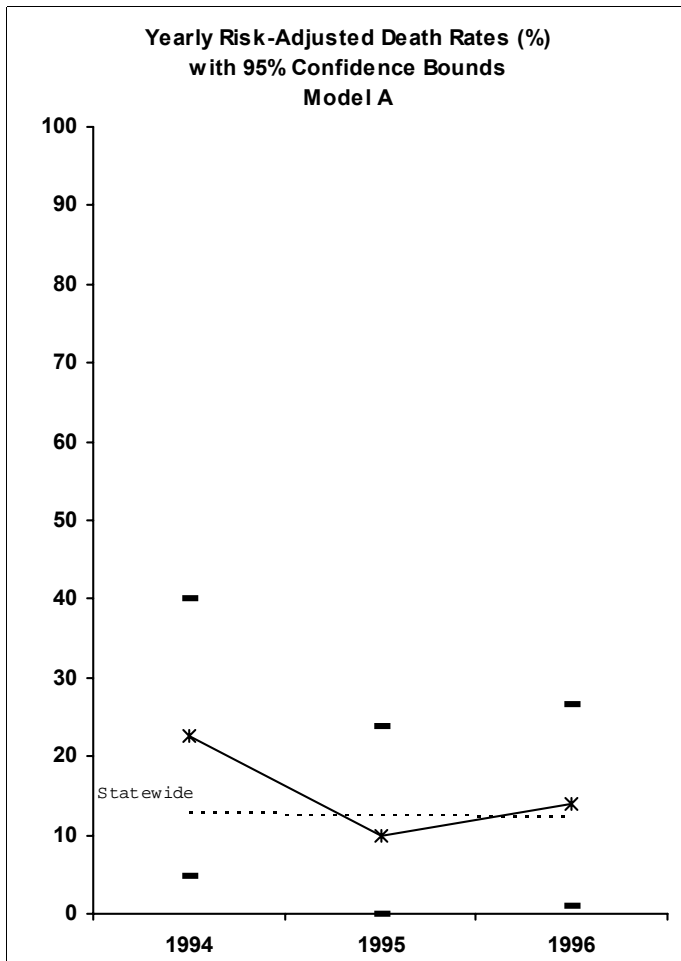
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Butte County: Enloe Hospital												
Model A	All Years	12.7	485	56	64.2	7.0	11.5	13.2	11.1	8.4	13.8	0.137
	1994	13.0	154	20	22.8	4.2	13.0	14.8	11.4	6.8	16.0	0.299
	1995	12.8	137	18	20.1	3.9	13.1	14.7	11.5	6.6	16.3	0.349
	1996	12.3	194	18	21.3	4.1	9.3	11.0	10.4	5.8	15.1	0.252
Model B	All Years	12.7	485	56	63.7	6.4	11.5	13.1	11.2	8.7	13.7	0.130
	1994	12.9	154	20	21.9	3.8	13.0	14.2	11.8	7.4	16.2	0.360
	1995	12.8	137	18	18.7	3.4	13.1	13.7	12.3	7.7	16.9	0.485
	1996	12.4	194	18	23.1	3.9	9.3	11.9	9.6	5.6	13.7	0.117
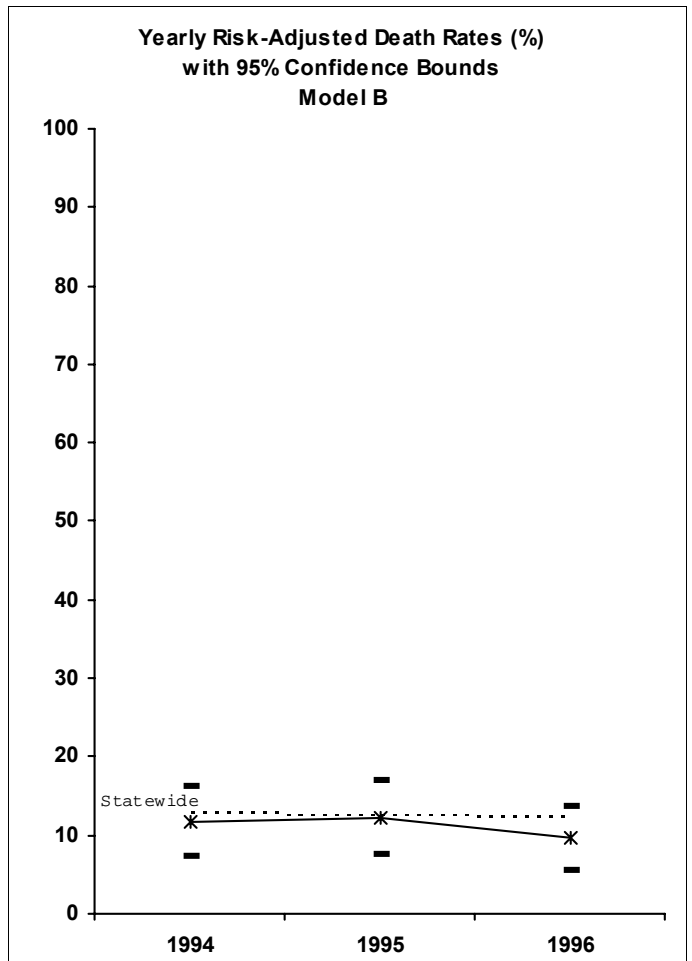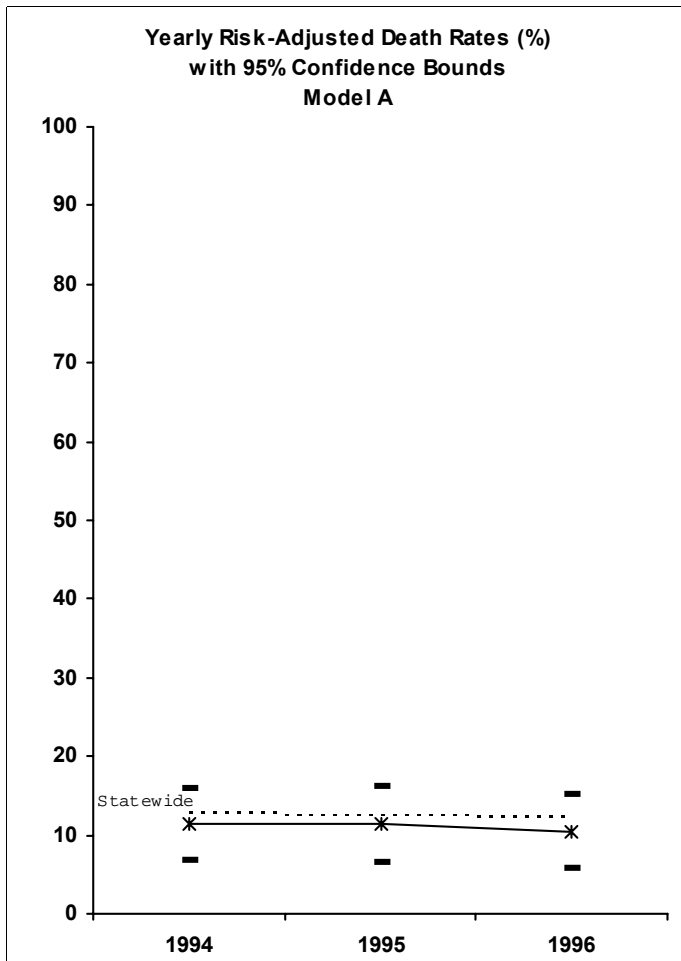
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Butte County: Feather River Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	264	36	42.1	5.6	13.6	16.0	10.9	7.5	14.2	0.159
	1994	13.0	101	17	17.7	3.6	16.8	17.5	12.5	7.3	17.7	0.487
	1995	12.8	80	6	13.6	3.2	7.5	17.1	5.6	0.0	11.5	0.008
	1996	12.3	83	13	10.8	2.9	15.7	13.0	14.9	8.4	21.4	0.267
Model B	All Years	12.7	264	36	38.1	5.1	13.6	14.4	12.0	8.7	15.4	0.386
	1994	12.9	101	17	17.2	3.4	16.8	17.0	12.8	7.8	17.8	0.549
	1995	12.8	80	6	11.5	2.9	7.5	14.4	6.7	0.4	13.0	0.034
	1996	12.4	83	13	9.4	2.6	15.7	11.3	17.1	10.5	23.7	0.114
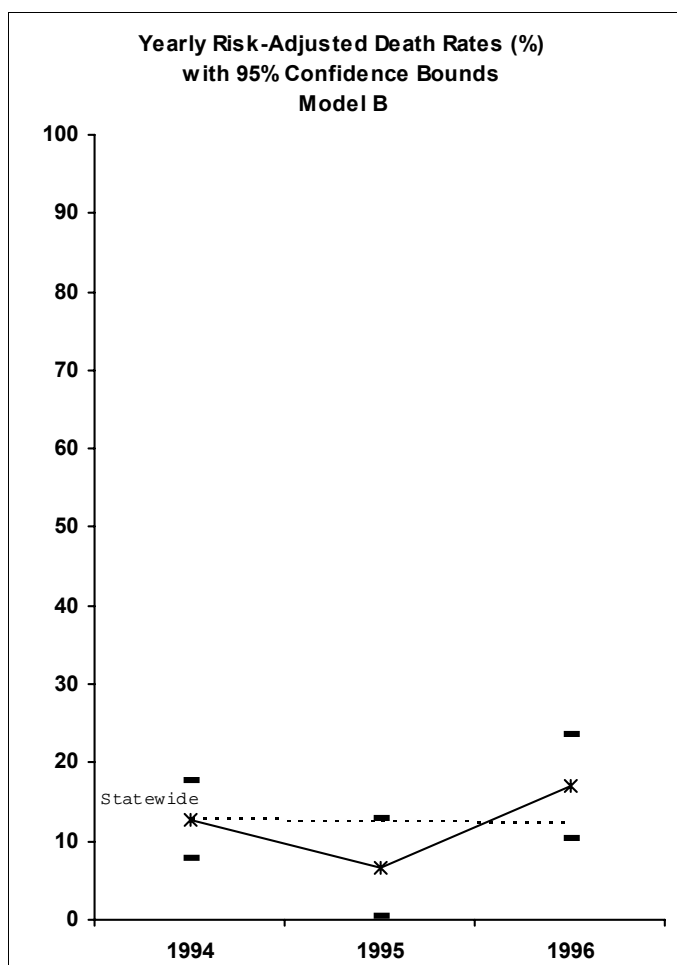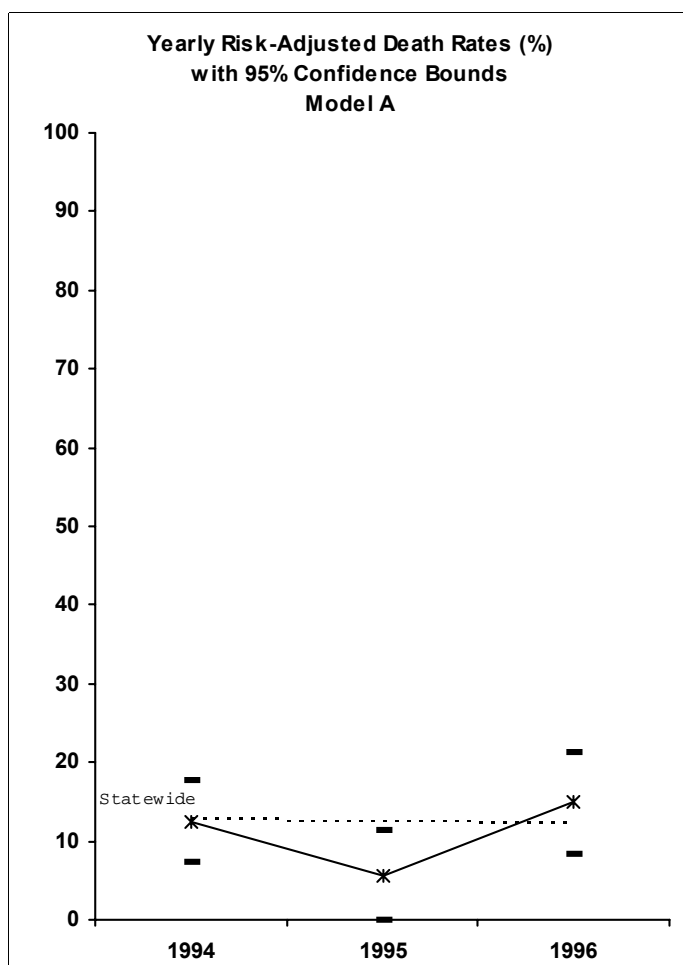
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Butte County: Oroville Hospital												
Model A	All Years	12.7	432	49	53.7	6.4	11.3	12.4	11.6	8.6	14.6	0.258
	1994	13.0	153	13	17.4	3.7	8.5	11.4	9.7	4.3	15.1	0.145
	1995	12.8	153	21	20.3	3.9	13.7	13.3	13.2	8.4	18.0	0.474
	1996	12.3	126	15	16.0	3.5	11.9	12.7	11.6	6.3	16.9	0.457
Model B	All Years	12.7	432	49	49.1	5.9	11.3	11.4	12.7	9.7	15.7	0.531
	1994	12.9	153	13	15.7	3.4	8.5	10.2	10.7	5.2	16.3	0.272
	1995	12.8	153	21	19.0	3.5	13.7	12.4	14.2	9.5	18.9	0.325
	1996	12.4	126	15	14.5	3.2	11.9	11.5	12.8	7.4	18.2	0.491

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	1	111	15	14.8	3.4	13.5	13.4	12.8	7.1	18.6
	1994	13.0	1	41	6	6.1	2.1	14.6	14.8	12.8	3.9	21.7
	1995	12.8	1	43	6	5.3	2.1	14.0	12.4	14.4	4.6	24.2
	1996	12.3	1	27	3	3.4	1.7	11.1	12.7	10.8	0.0	22.4
Model B	All Years	12.7	1	111	15	12.6	3.0	13.5	11.4	15.1	9.2	21.0
	1994	12.9	1	41	6	5.7	2.0	14.6	13.9	13.6	4.9	22.3
	1995	12.8	1	43	6	4.5	1.8	14.0	10.4	17.2	7.2	27.2
	1996	12.4	1	27	3	2.5	1.4	11.1	9.1	15.1	1.1	29.2
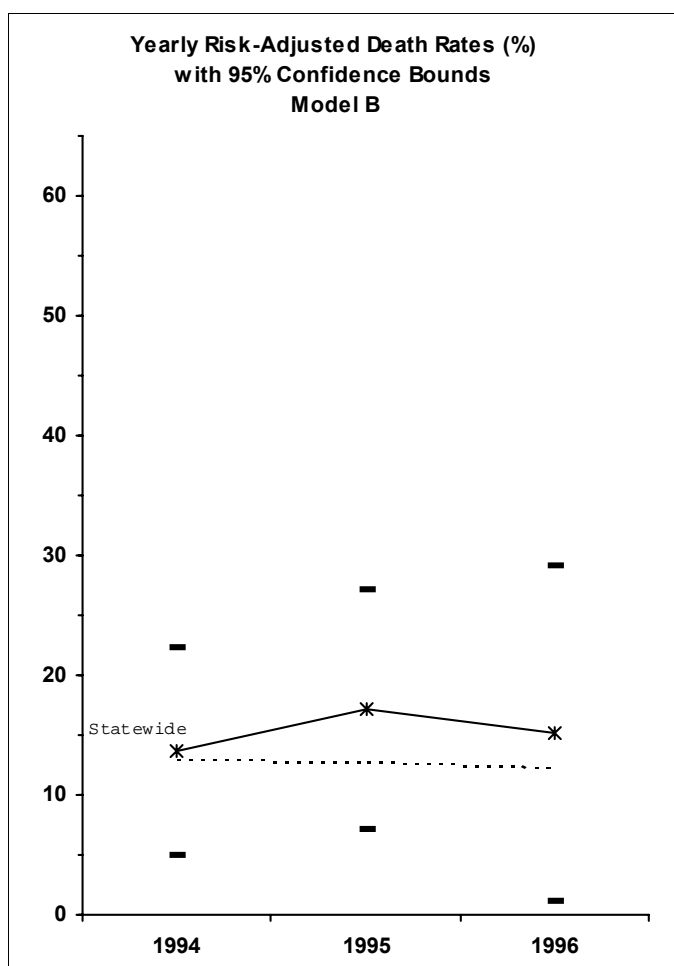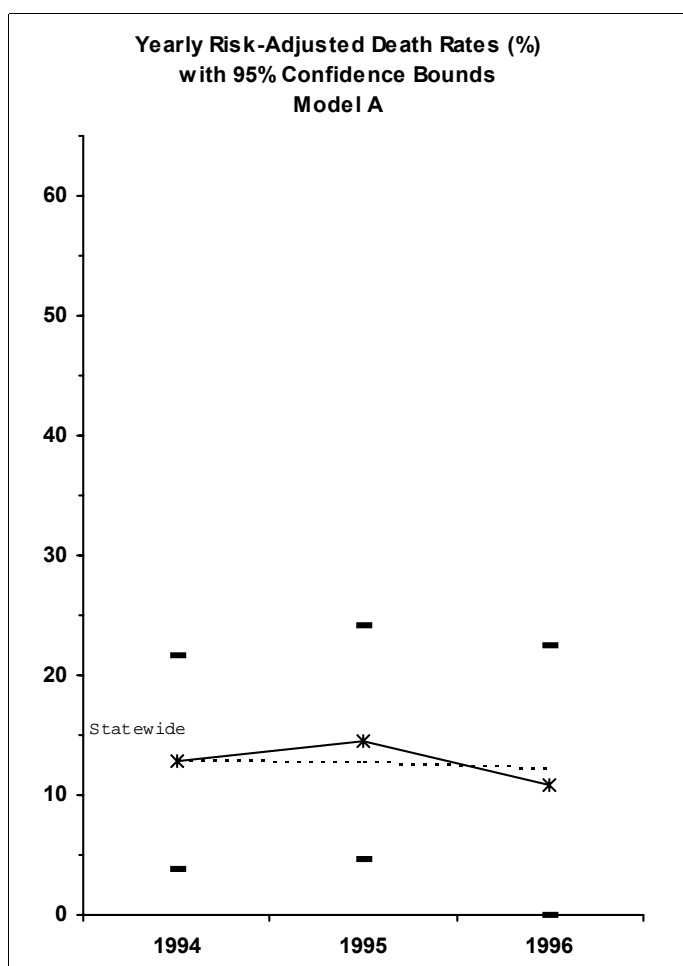
Calaveras County Summary

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Calaveras County: Mark Twain St. Joseph's Hospital												
Model A	All Years	12.7	111	15	14.8	3.4	13.5	13.4	12.8	7.1	18.6	0.529
	1994	13.0	41	6	6.1	2.1	14.6	14.8	12.8	3.9	21.7	0.593
	1995	12.8	43	6	5.3	2.1	14.0	12.4	14.4	4.6	24.2	0.446
	1996	12.3	27	3	3.4	1.7	11.1	12.7	10.8	0.0	22.4	0.542
Model B	All Years	12.7	111	15	12.6	3.0	13.5	11.4	15.1	9.2	21.0	0.259
	1994	12.9	41	6	5.7	2.0	14.6	13.9	13.6	4.9	22.3	0.523
	1995	12.8	43	6	4.5	1.8	14.0	10.4	17.2	7.2	27.2	0.269
	1996	12.4	27	3	2.5	1.4	11.1	9.1	15.1	1.1	29.2	0.453

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter
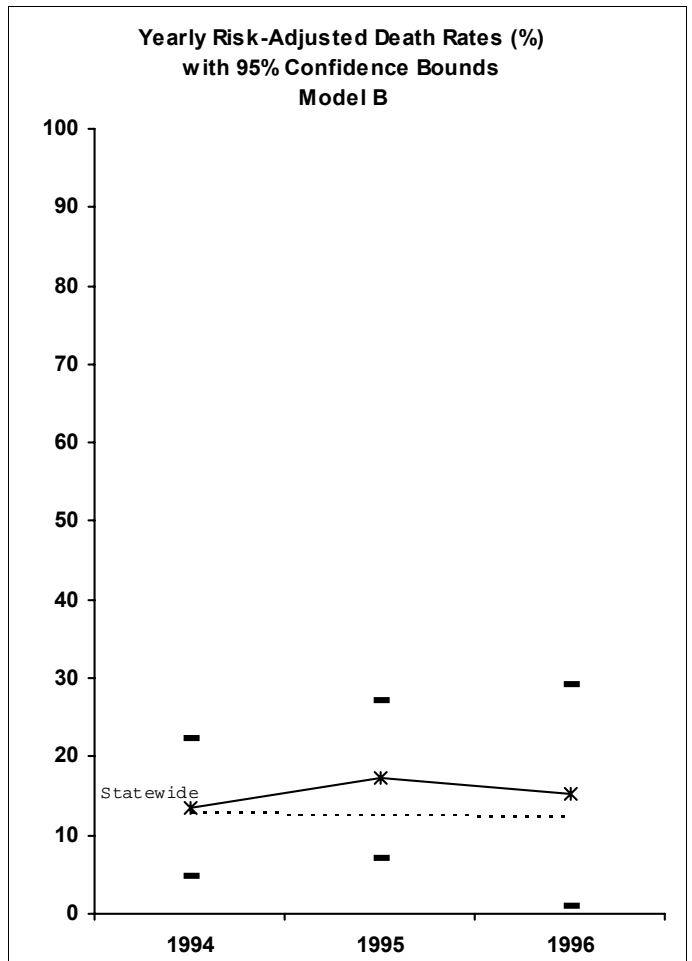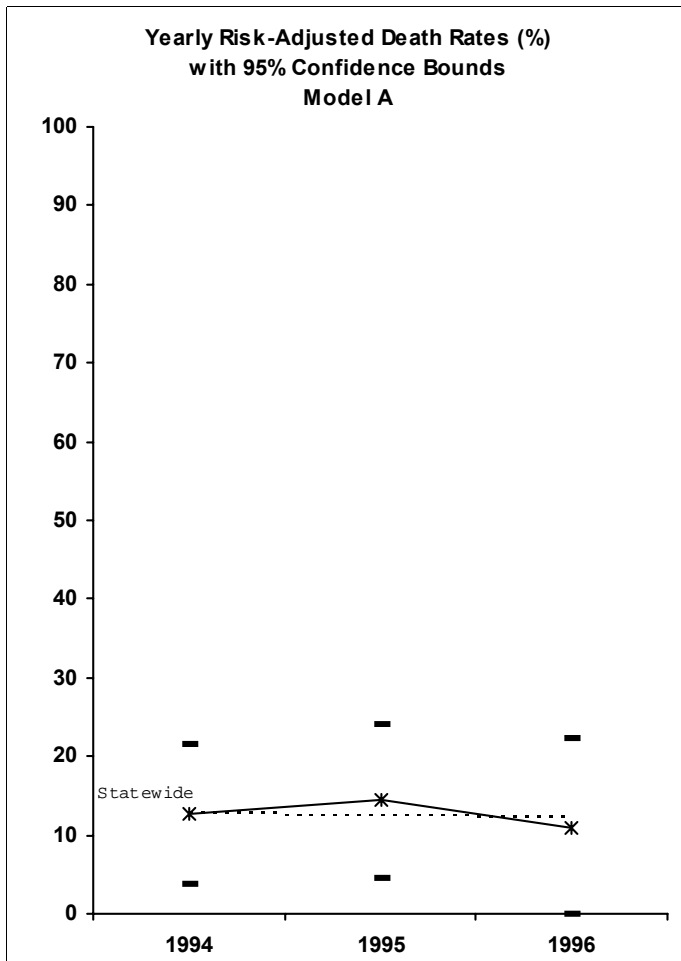
Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	1	66	17	13.5	3.1	25.8	20.5	16.0	10.3	21.6
	1994	13.0	1	25	4	4.7	1.8	16.0	18.9	11.0	1.1	20.9
	1995	12.8	1	22	6	5.4	1.9	27.3	24.5	14.2	5.3	23.1
	1996	12.3	1	19	7	3.4	1.5	36.8	17.9	25.4	14.5	36.3
Model B	All Years	12.7	1	66	17	15.9	2.9	25.8	24.1	13.6	9.0	18.1
	1994	12.9	1	25	4	6.0	1.8	16.0	24.1	8.6	1.1	16.1
	1995	12.8	1	22	6	5.7	1.8	27.3	26.1	13.4	5.5	21.3
	1996	12.4	1	19	7	4.2	1.4	36.8	21.9	20.8	12.7	28.9

Colusa County Summary

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B
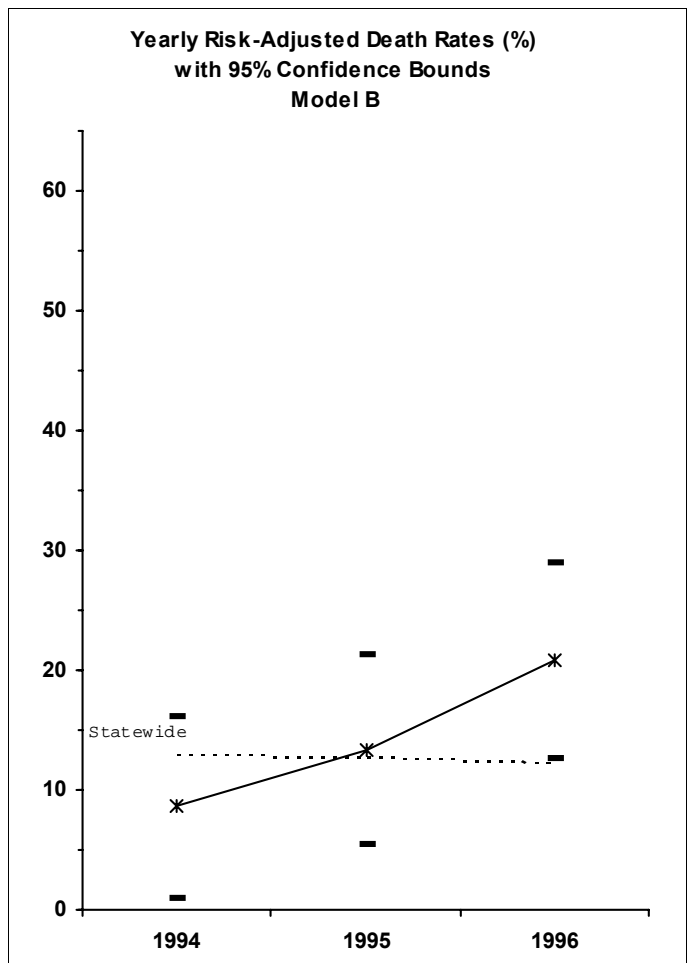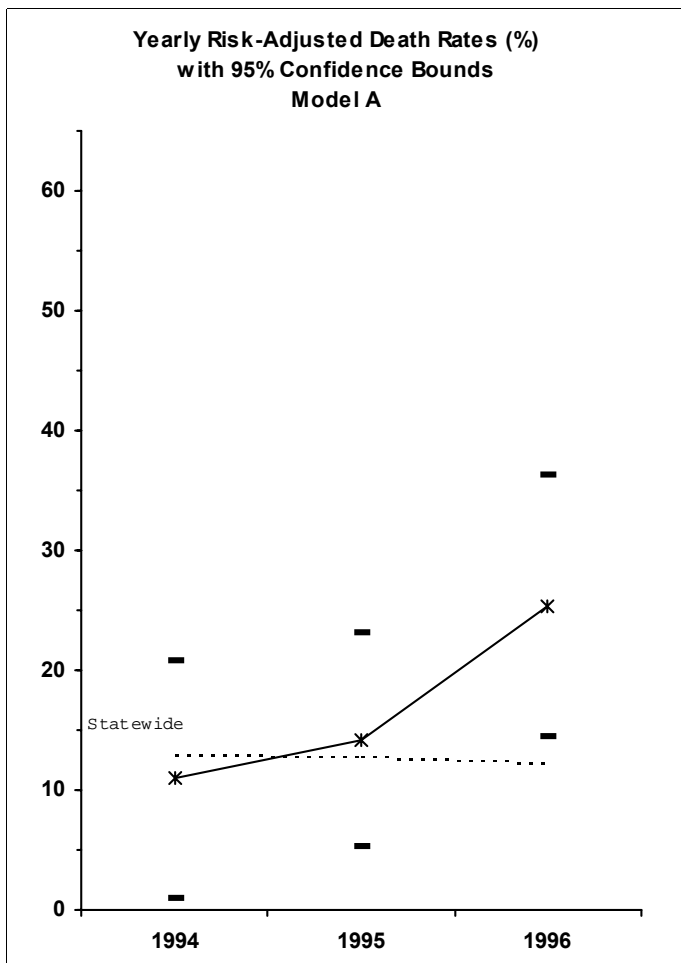
Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Colusa County: Colusa Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	66	17	13.5	3.1	25.8	20.5	16.0	10.3	21.6	0.166
	1994	13.0	25	4	4.7	1.8	16.0	18.9	11.0	1.1	20.9	0.469
	1995	12.8	22	6	5.4	1.9	27.3	24.5	14.2	5.3	23.1	0.464
	1996	12.3	19	7	3.4	1.5	36.8	17.9	25.4	14.5	36.3	0.027
Model B	All Years	12.7	66	17	15.9	2.9	25.8	24.1	13.6	9.0	18.1	0.415
	1994	12.9	25	4	6.0	1.8	16.0	24.1	8.6	1.1	16.1	0.199
	1995	12.8	22	6	5.7	1.8	27.3	26.1	13.4	5.5	21.3	0.544
	1996	12.4	19	7	4.2	1.4	36.8	21.9	20.8	12.7	28.9	0.048

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B
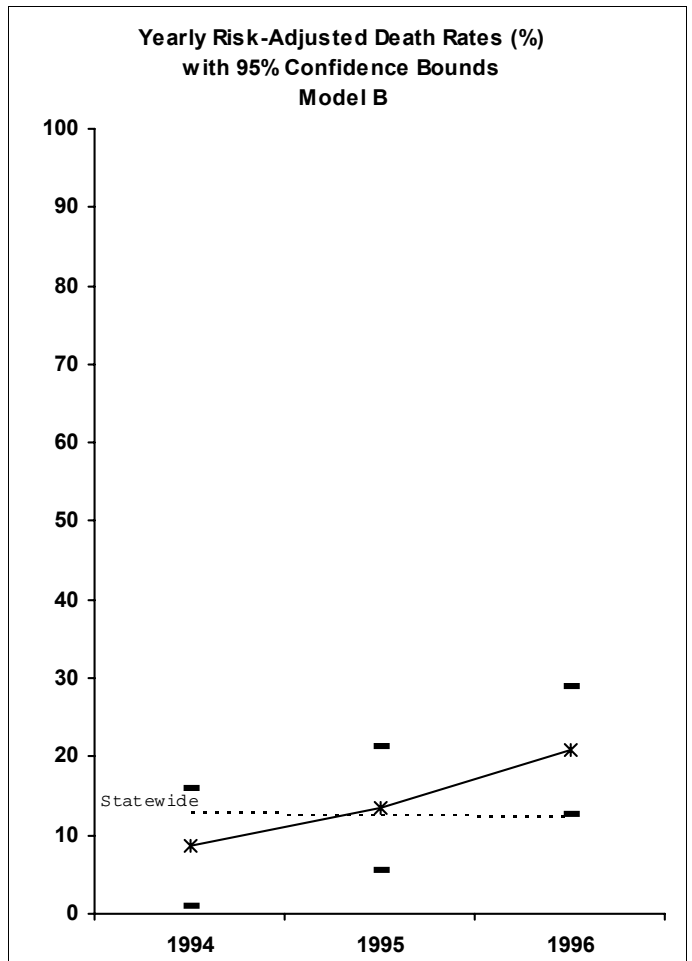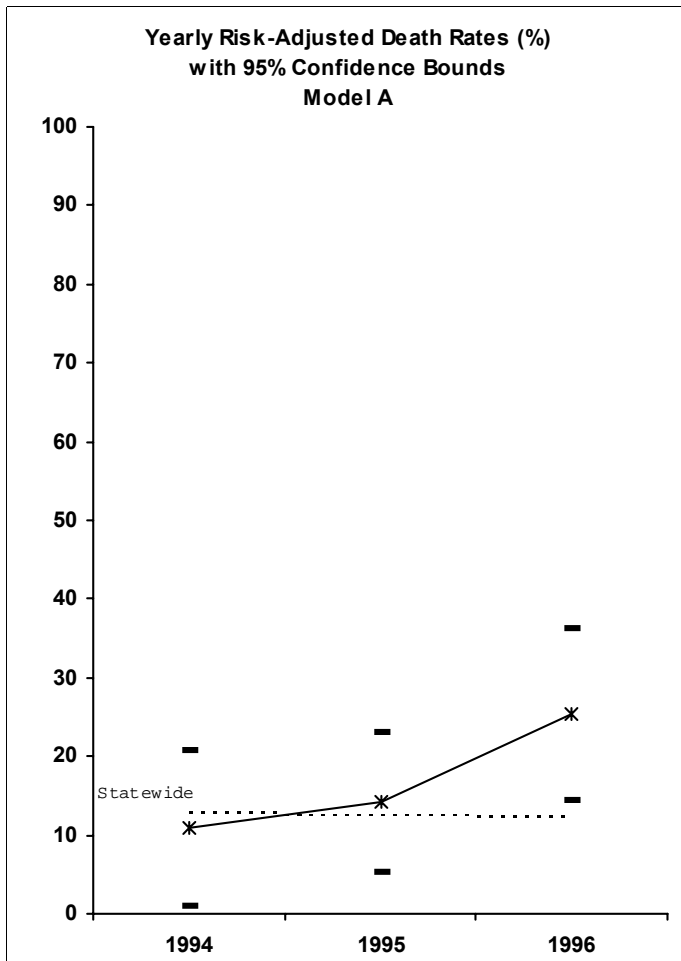
‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Contra Costa County Summary												
Model A	All Years	12.7	10	3,867	415	429.5	18.4	10.7	11.1	12.3	11.2	13.3
	1994	13.0	10	1,387	155	159.8	11.2	11.2	11.5	12.6	10.8	14.4
	1995	12.8	10	1,304	128	142.4	10.6	9.8	10.9	11.5	9.6	13.4
	1996	12.3	10	1,176	132	127.2	10.0	11.2	10.8	12.8	10.9	14.7
Model B	All Years	12.7	10	3,846	413	417.5	16.7	10.7	10.9	12.6	11.6	13.6
	1994	12.9	10	1,385	155	160.5	10.3	11.2	11.6	12.5	10.9	14.1
	1995	12.8	10	1,294	126	138.5	9.6	9.7	10.7	11.7	9.9	13.4
	1996	12.4	10	1,167	132	118.5	9.0	11.3	10.2	13.8	11.9	15.6

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	98	13	10.6	2.9	13.3	10.8	15.7	8.9	22.5	0.243
	1994	13.0	29	3	3.2	1.6	10.3	11.1	12.0	0.0	24.7	0.592
	1995	12.8	34	5	4.0	1.8	14.7	11.8	15.9	4.8	27.1	0.373
	1996	12.3	35	5	3.3	1.6	14.3	9.4	18.7	7.1	30.3	0.216
Model B	All Years	12.7	98	13	9.6	2.6	13.3	9.8	17.2	10.5	23.8	0.132
	1994	12.9	29	3	2.6	1.4	10.3	8.9	15.0	1.1	29.0	0.493
	1995	12.8	34	5	4.4	1.6	14.7	12.9	14.6	5.4	23.9	0.451
	1996	12.4	35	5	2.7	1.4	14.3	7.6	23.3	10.5	36.1	0.098
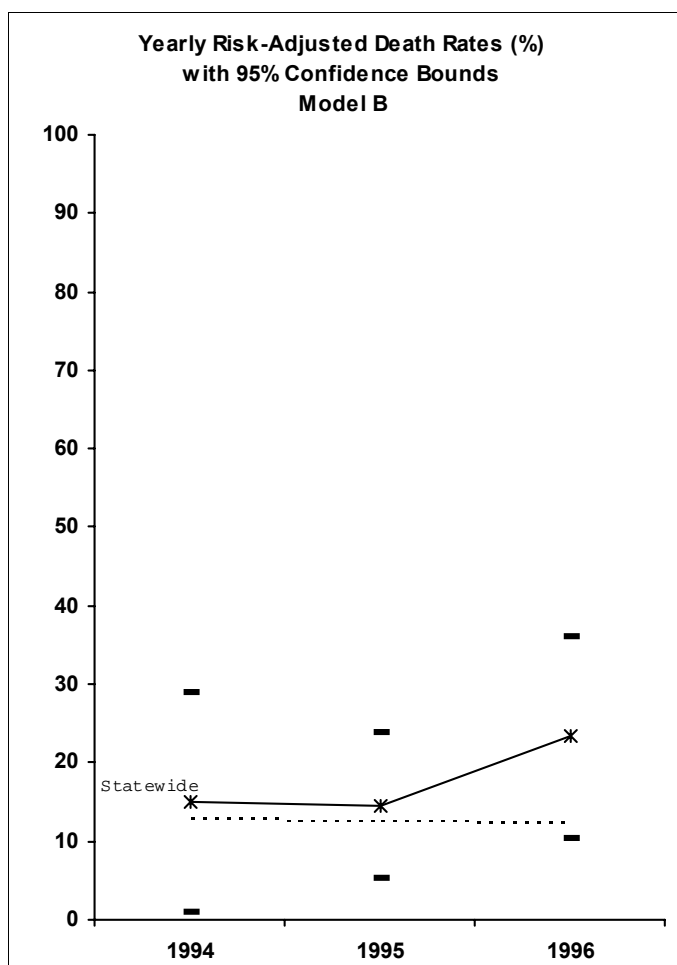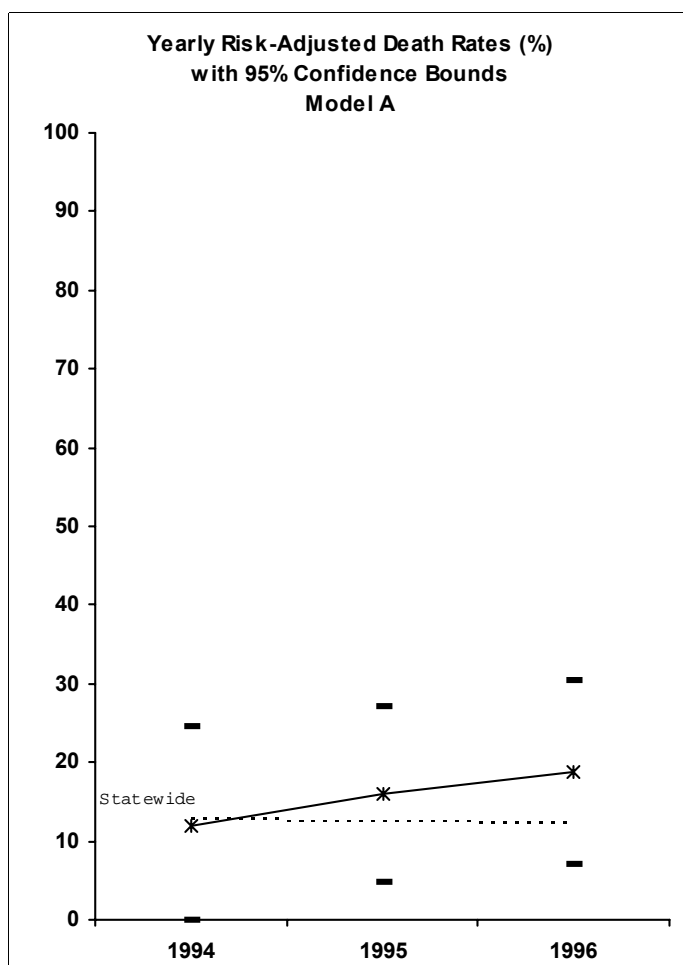
Contra Costa County: Contra Costa Regional Medical Center

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Contra Costa County: Doctors Medical Center, Pinole Campus												
Model A	All Years	12.7	337	35	38.8	5.6	10.4	11.5	11.5	7.9	15.0	0.278
	1994	13.0	143	18	16.7	3.6	12.6	11.7	14.0	8.4	19.5	0.401
	1995	12.8	95	8	11.8	3.1	8.4	12.5	8.7	2.1	15.2	0.138
	1996	12.3	99	9	10.3	2.9	9.1	10.4	10.8	4.0	17.5	0.401
Model B	All Years	12.7	332	33	31.0	4.8	9.9	9.3	13.5	9.7	17.4	0.368
	1994	12.9	142	18	13.2	3.1	12.7	9.3	17.7	11.7	23.7	0.085
	1995	12.8	93	6	8.9	2.6	6.5	9.6	8.6	1.3	16.0	0.177
	1996	12.4	97	9	8.9	2.5	9.3	9.2	12.5	5.7	19.3	0.548
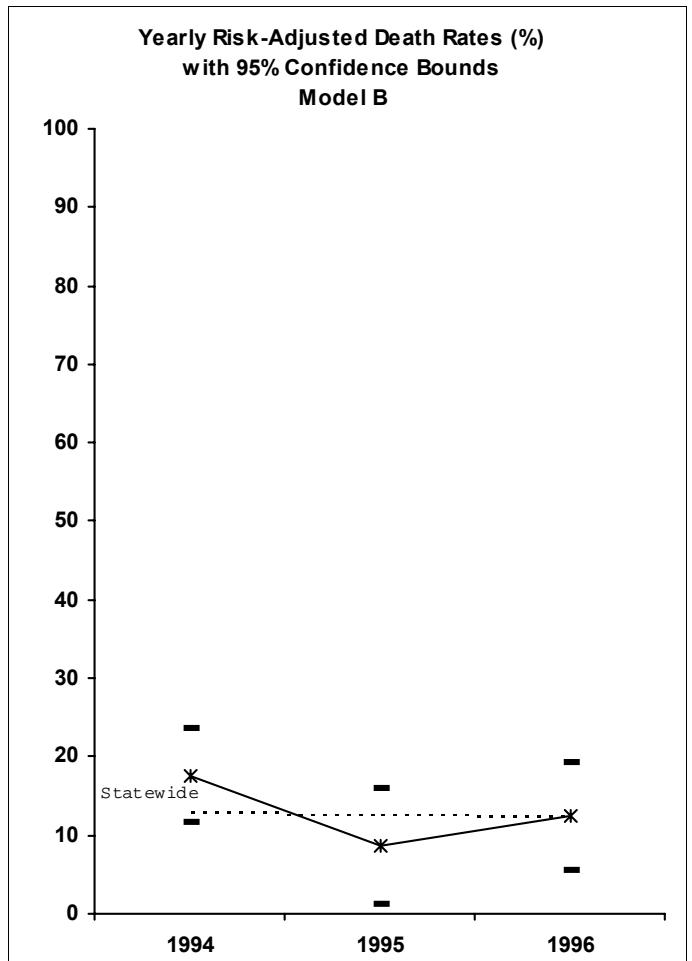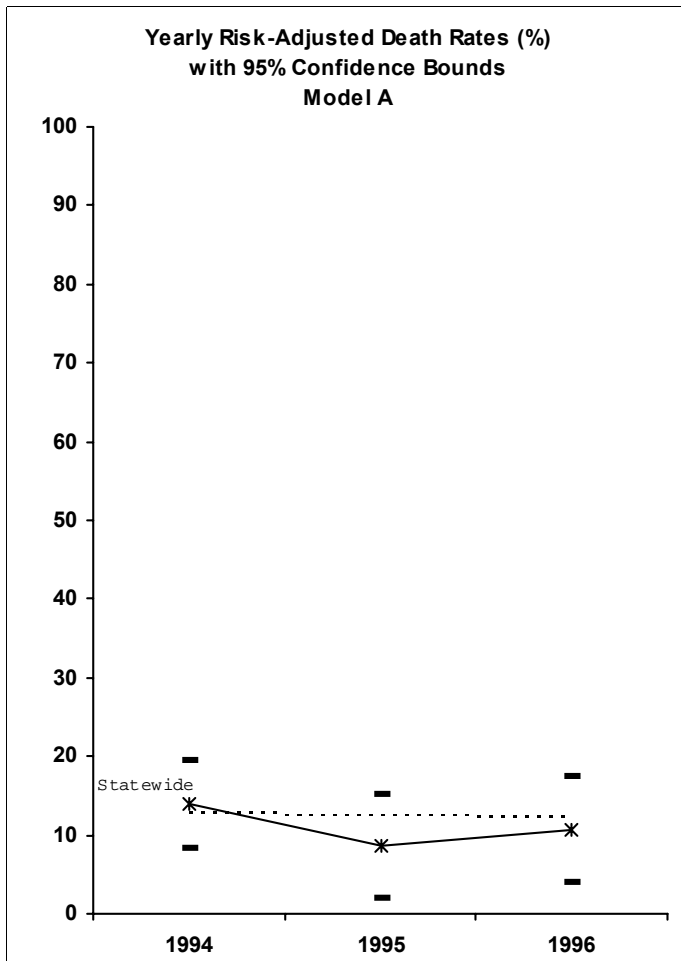
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Contra Costa County: Doctors Medical Center, San Pablo Campus

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	528	48	59.6	6.9	9.1	11.3	10.2	7.4	13.1	0.051
	1994	13.0	187	15	21.4	4.1	8.0	11.4	9.1	4.2	14.0	0.072
	1995	12.8	167	13	17.5	3.8	7.8	10.5	9.5	4.1	14.9	0.143
	1996	12.3	174	20	20.7	4.0	11.5	11.9	11.9	7.3	16.6	0.493
Model B	All Years	12.7	528	48	48.4	6.0	9.1	9.2	12.6	9.5	15.7	0.512
	1994	12.9	187	15	17.9	3.6	8.0	9.6	10.8	5.7	15.9	0.254
	1995	12.8	167	13	13.7	3.2	7.8	8.2	12.1	6.2	18.0	0.486
	1996	12.4	174	20	16.8	3.5	11.5	9.6	14.7	9.7	19.8	0.214
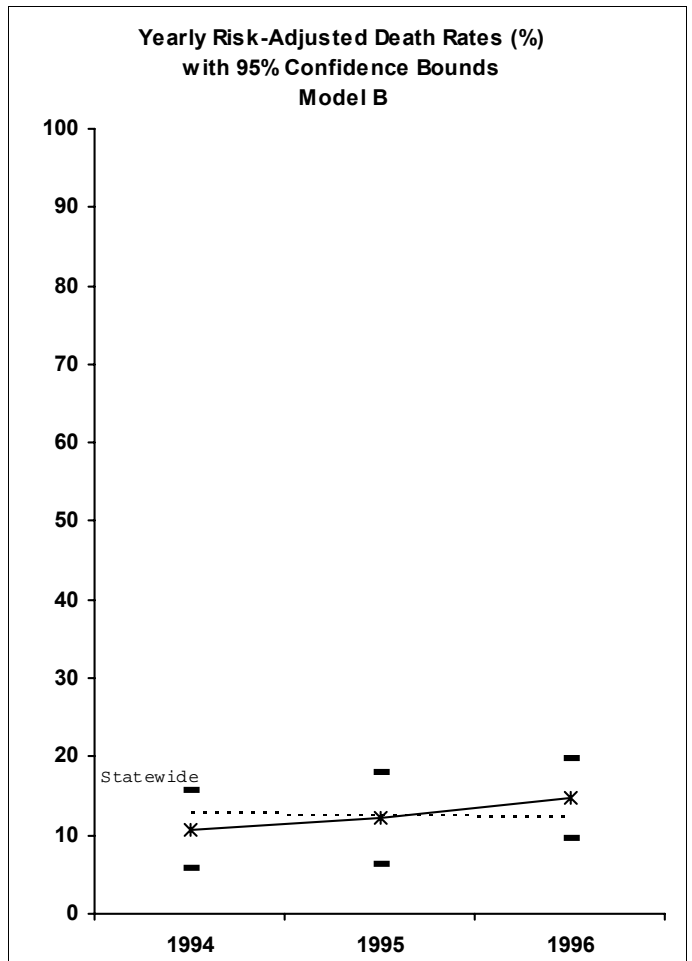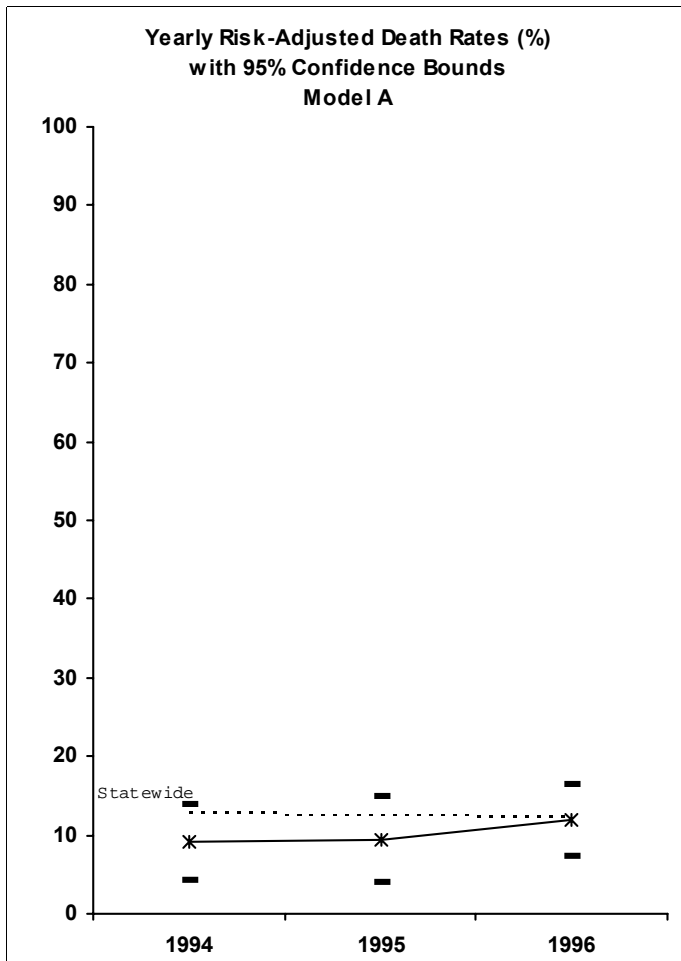
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Contra Costa County: John Muir Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	600	70	80.2	7.8	11.7	13.4	11.1	8.7	13.5	0.106
	1994	13.0	224	24	30.9	4.9	10.7	13.8	10.1	6.1	14.1	0.092
	1995	12.8	180	27	23.7	4.3	15.0	13.2	14.6	10.0	19.1	0.252
	1996	12.3	196	19	25.6	4.4	9.7	13.1	9.2	5.0	13.3	0.078
Model B	All Years	12.7	600	70	83.3	7.4	11.7	13.9	10.7	8.5	12.9	0.040
	1994	12.9	224	24	34.1	4.7	10.7	15.2	9.1	5.6	12.6	0.017
	1995	12.8	180	27	25.7	4.1	15.0	14.3	13.4	9.4	17.4	0.419
	1996	12.4	196	19	23.4	4.0	9.7	12.0	10.0	5.9	14.1	0.160
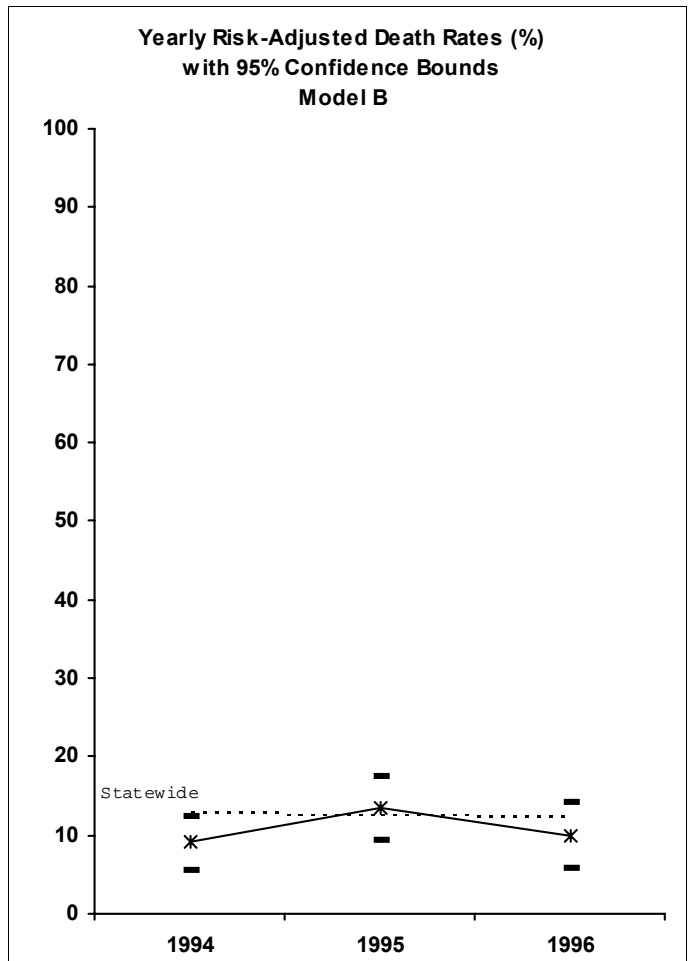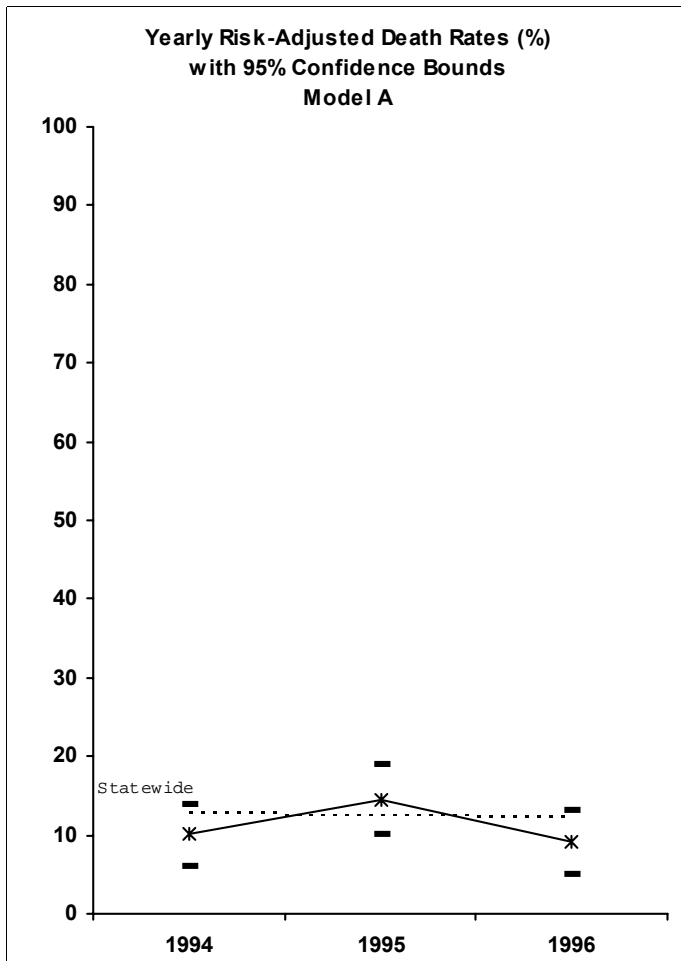
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Contra Costa County: Kaiser Foundation Hospital-Richmond‡												
Model A	All Years	12.7	122	15	13.0	3.2	12.3	10.6	14.7	8.5	20.9	0.309
	1994	13.0	60	6	6.1	2.2	10.0	10.2	12.7	3.5	22.0	0.589
	1995	12.8	61	9	6.6	2.3	14.8	10.9	17.4	8.8	26.0	0.200
	1996	12.3	1	0	0.2	0.4	0.0	24.3	0.0	0.0	42.7	0.757
Model B	All Years	12.7	122	15	13.6	2.8	12.3	11.2	14.0	8.8	19.2	0.373
	1994	12.9	60	6	6.7	2.0	10.0	11.1	11.6	4.1	19.1	0.478
	1995	12.8	61	9	6.8	2.0	14.8	11.2	16.9	9.6	24.3	0.195
	1996	12.4	1	0	0.2	0.4	0.0	15.0	0.0	0.0	57.6	0.850
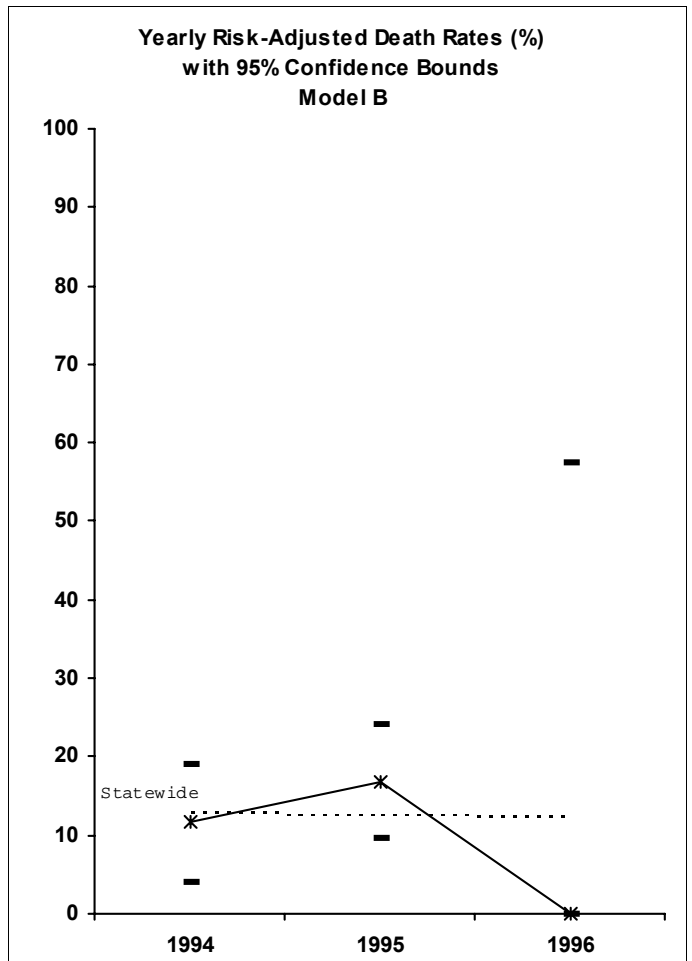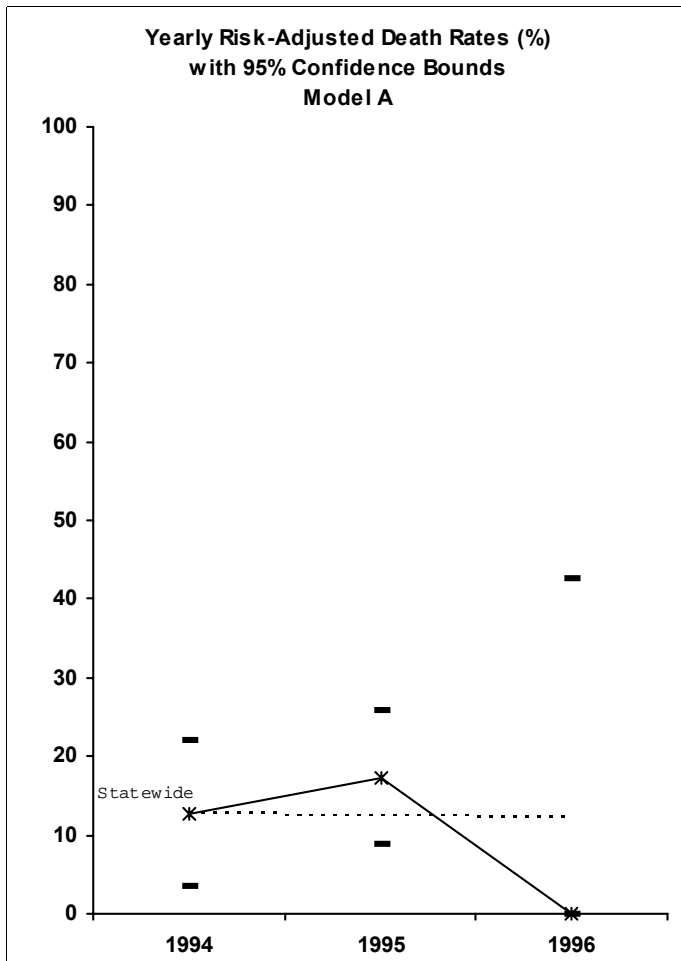
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Contra Costa County: Kaiser Foundation Hospital-Walnut Creek‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	1070	86	110.6	9.3	8.0	10.3	9.9	7.8	12.0	0.004
	1994	13.0	375	39	41.4	5.7	10.4	11.0	12.2	8.7	15.7	0.375
	1995	12.8	366	16	36.1	5.3	4.4	9.9	5.7	2.0	9.3	0.000
	1996	12.3	329	31	33.1	5.2	9.4	10.1	11.6	7.8	15.4	0.388
Model B	All Years	12.7	1069	86	101.9	8.4	8.0	9.5	10.7	8.7	12.8	0.031
	1994	12.9	375	39	38.7	5.1	10.4	10.3	13.0	9.7	16.4	0.506
	1995	12.8	365	16	32.7	4.8	4.4	9.0	6.3	2.6	9.9	0.000
	1996	12.4	329	31	30.6	4.6	9.4	9.3	12.5	8.9	16.2	0.497
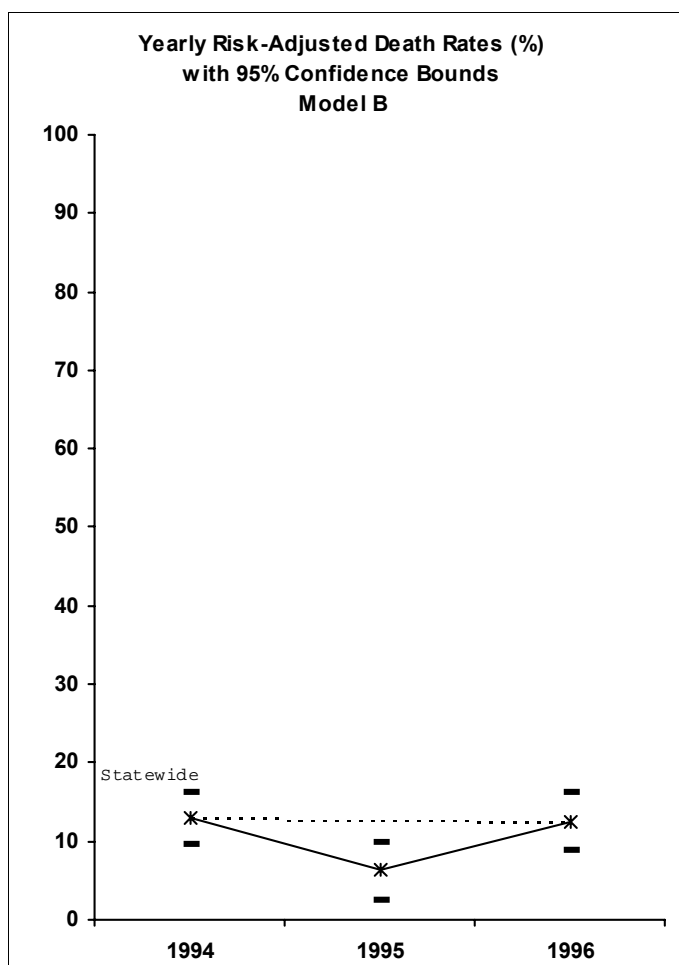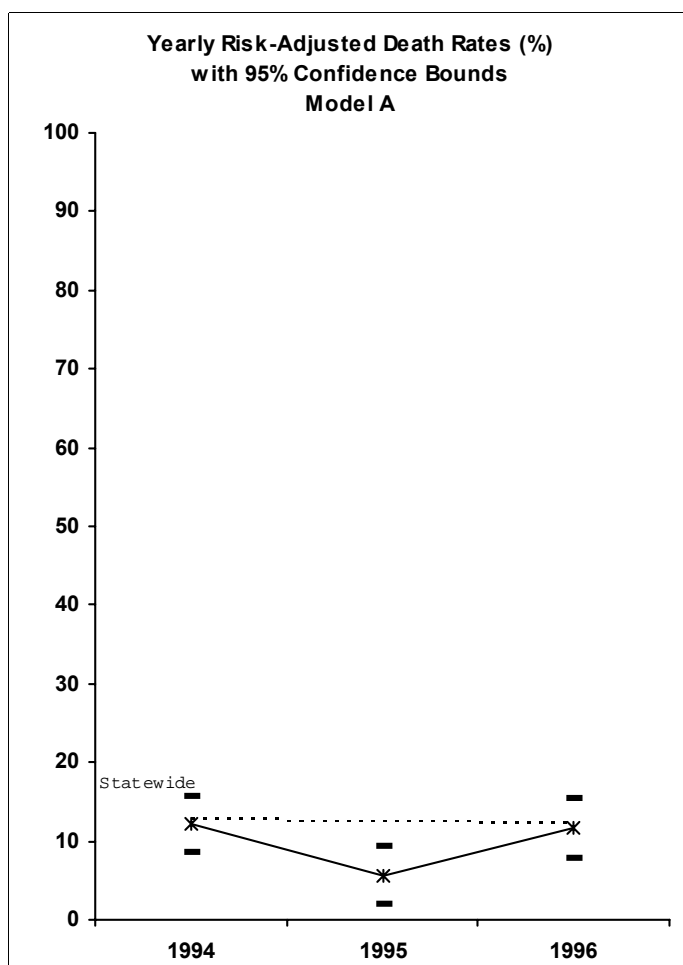
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Contra Costa County: Los Medanos Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	19	8	2.7	1.5	42.1	14.0	38.1	24.5	51.7	0.002
	1994	13.0	19	8	2.7	1.5	42.1	14.0	38.9	25.0	52.7	0.002
	1995	12.8	0									
	1996	12.3	0									
Model B	All Years	12.7	19	8	3.5	1.5	42.1	18.5	28.9	18.6	39.2	0.005
	1994	12.9	19	8	3.5	1.5	42.1	18.5	29.4	18.9	39.9	0.005
	1995	12.8	0									
	1996	12.4	0									

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Contra Costa County: Mt. Diablo Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	512	58	55.9	6.6	11.3	10.9	13.2	10.2	16.1	0.400
	1994	13.0	164	15	17.4	3.7	9.1	10.6	11.2	5.8	16.6	0.315
	1995	12.8	199	26	23.3	4.3	13.1	11.7	14.3	9.7	18.8	0.300
	1996	12.3	149	17	15.2	3.4	11.4	10.2	13.8	8.3	19.3	0.345
Model B	All Years	12.7	508	58	59.6	6.2	11.4	11.7	12.4	9.8	15.0	0.438
	1994	12.9	164	15	18.6	3.5	9.1	11.4	10.4	5.6	15.2	0.188
	1995	12.8	196	26	26.6	4.1	13.3	13.6	12.5	8.7	16.3	0.494
	1996	12.4	148	17	14.3	3.2	11.5	9.7	14.7	9.4	20.1	0.237
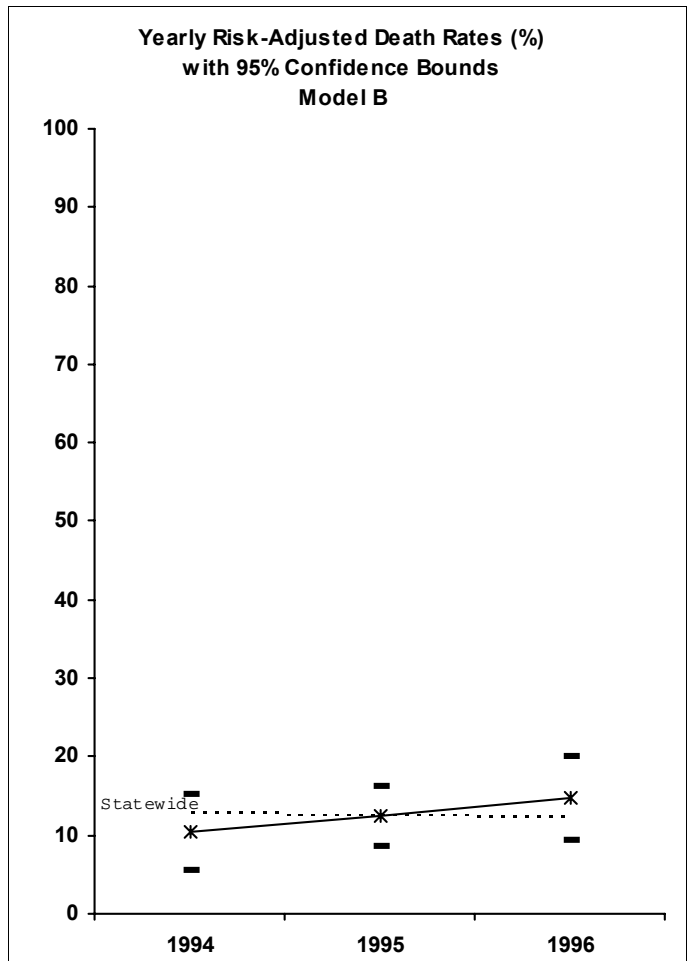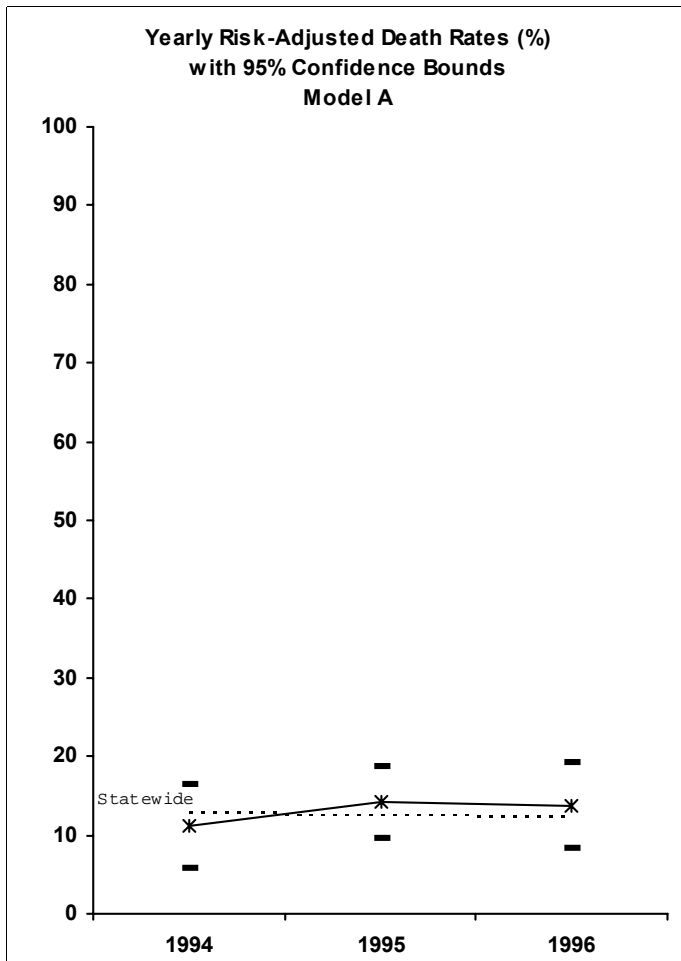
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Contra Costa County: San Ramon Regional Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	174	23	17.2	3.7	13.2	9.9	17.0	11.6	22.4	0.079
	1994	13.0	59	11	5.9	2.2	18.6	10.0	24.1	14.6	33.6	0.025
	1995	12.8	57	7	6.5	2.2	12.3	11.4	13.8	5.2	22.4	0.483
	1996	12.3	58	5	4.7	2.0	8.6	8.2	13.0	2.8	23.2	0.524
Model B	All Years	12.7	172	23	20.5	3.7	13.4	11.9	14.2	9.8	18.7	0.289
	1994	12.9	58	11	7.8	2.2	19.0	13.5	18.2	10.9	25.4	0.116
	1995	12.8	56	7	6.9	2.1	12.5	12.3	13.1	5.2	20.9	0.553
	1996	12.4	58	5	5.8	2.0	8.6	10.0	10.6	2.3	18.9	0.451
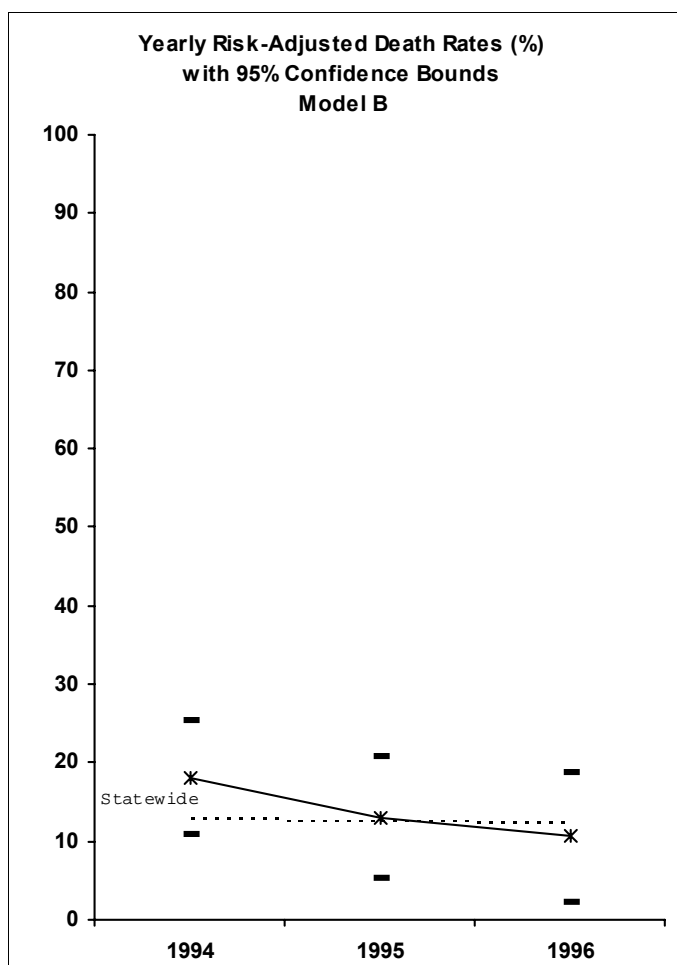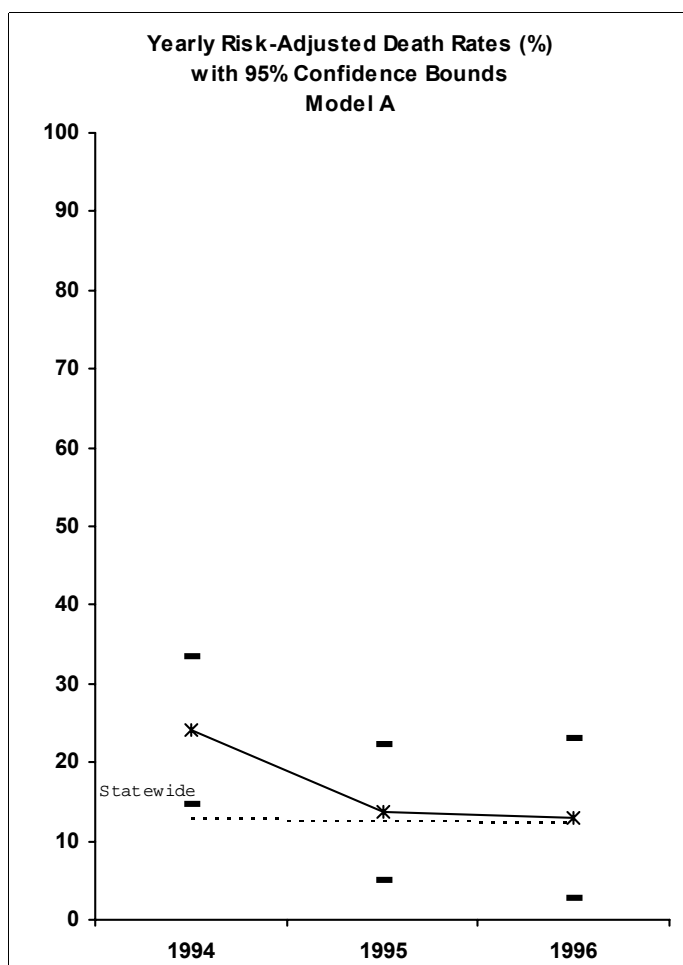
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Contra Costa County: Sutter Delta Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	407	59	41.0	5.7	14.5	10.1	18.3	14.8	21.8	0.002
	1994	13.0	127	16	14.1	3.4	12.6	11.1	14.7	8.6	20.7	0.333
	1995	12.8	145	17	12.8	3.2	11.7	8.8	17.0	10.7	23.4	0.128
	1996	12.3	135	26	14.0	3.3	19.3	10.4	22.9	17.2	28.6	0.001
Model B	All Years	12.7	398	59	46.0	5.3	14.8	11.6	16.3	13.4	19.2	0.011
	1994	12.9	127	16	17.4	3.2	12.6	13.7	11.9	7.2	16.6	0.396
	1995	12.8	142	17	12.7	2.9	12.0	8.9	17.2	11.4	23.0	0.097
	1996	12.4	129	26	15.9	3.0	20.2	12.3	20.2	15.5	24.8	0.001

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Del Norte County Summary												
Model A	All Years	12.7	1	243	32	33.9	5.1	13.2	14.0	12.0	8.2	15.8
	1994	13.0	1	87	12	13.0	3.2	13.8	14.9	12.0	5.7	18.2
	1995	12.8	1	75	10	10.2	2.8	13.3	13.6	12.6	5.6	19.5
	1996	12.3	1	81	10	10.7	2.9	12.3	13.2	11.5	5.0	18.1
Model B	All Years	12.7	1	242	32	26.9	4.5	13.2	11.1	15.1	11.0	19.2
	1994	12.9	1	87	12	10.1	2.7	13.8	11.6	15.3	8.5	22.2
	1995	12.8	1	74	10	8.0	2.5	13.5	10.9	15.9	8.3	23.6
	1996	12.4	1	81	10	8.8	2.6	12.3	10.8	14.1	7.0	21.1
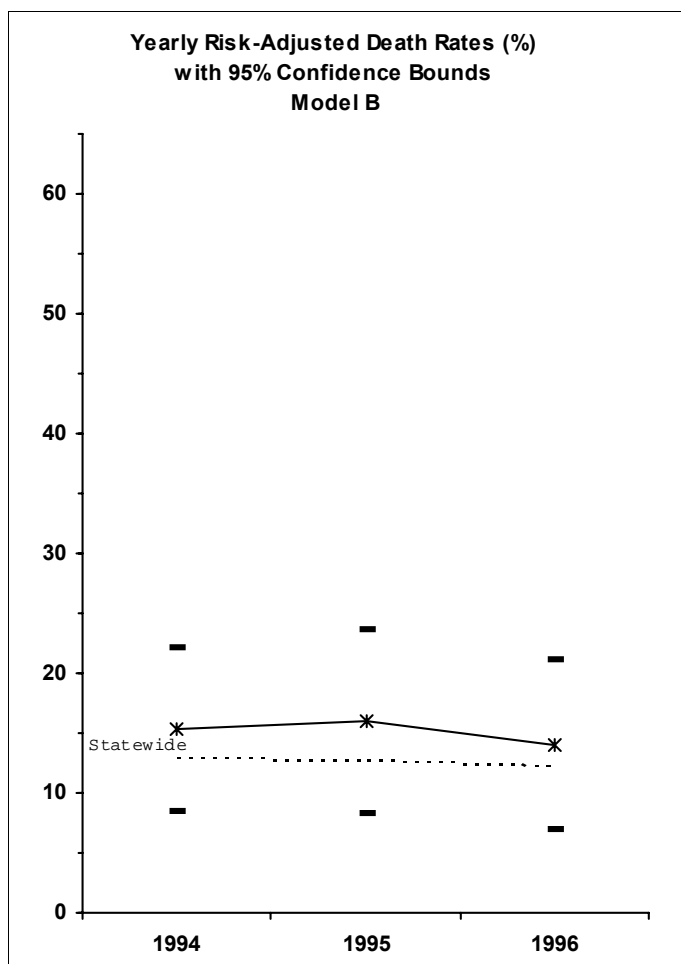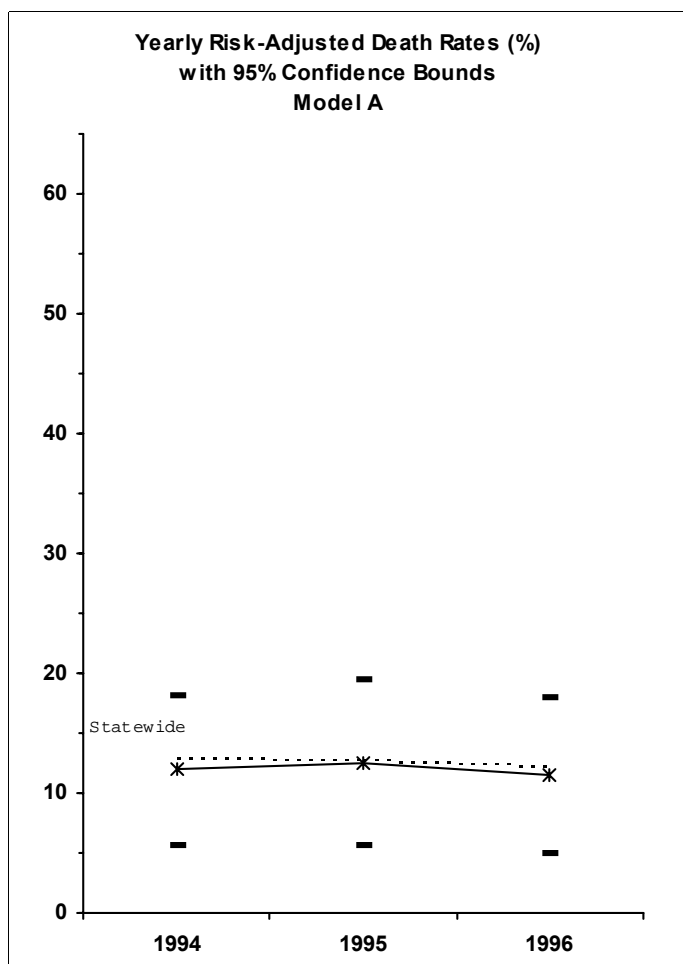
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Del Norte County: Sutter Coast Hospital												
Model A	All Years	12.7	243	32	33.9	5.1	13.2	14.0	12.0	8.2	15.8	0.399
	1994	13.0	87	12	13.0	3.2	13.8	14.9	12.0	5.7	18.2	0.449
	1995	12.8	75	10	10.2	2.8	13.3	13.6	12.6	5.6	19.5	0.559
	1996	12.3	81	10	10.7	2.9	12.3	13.2	11.5	5.0	18.1	0.483
Model B	All Years	12.7	242	32	26.9	4.5	13.2	11.1	15.1	11.0	19.2	0.154
	1994	12.9	87	12	10.1	2.7	13.8	11.6	15.3	8.5	22.2	0.297
	1995	12.8	74	10	8.0	2.5	13.5	10.9	15.9	8.3	23.6	0.266
	1996	12.4	81	10	8.8	2.6	12.3	10.8	14.1	7.0	21.1	0.376

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	2	588	53	73.6	7.5	9.0	12.5	9.1	6.6	11.7
	1994	13.0	2	208	17	25.2	4.4	8.2	12.1	8.7	4.3	13.1
	1995	12.8	2	215	21	28.6	4.7	9.8	13.3	9.4	5.3	13.5
	1996	12.3	2	165	15	19.7	3.9	9.1	12.0	9.4	4.6	14.1
Model B	All Years	12.7	2	585	53	65.3	6.7	9.1	11.2	10.3	7.7	12.9
	1994	12.9	2	208	17	22.3	4.0	8.2	10.7	9.8	5.3	14.4
	1995	12.8	2	214	21	26.6	4.2	9.8	12.4	10.1	6.2	14.1
	1996	12.4	2	163	15	16.4	3.4	9.2	10.0	11.3	6.2	16.4
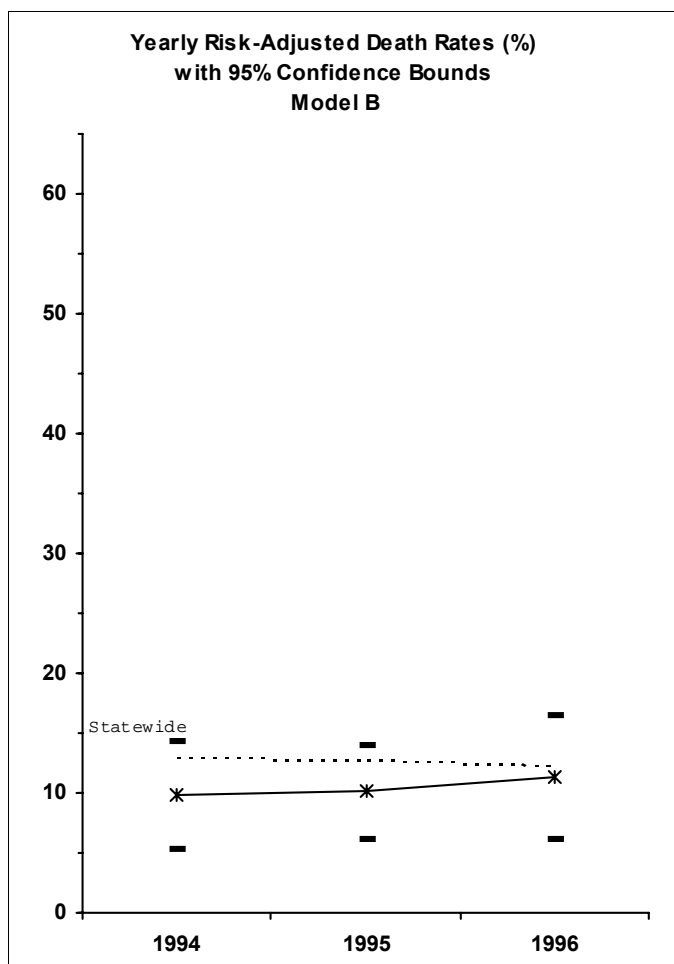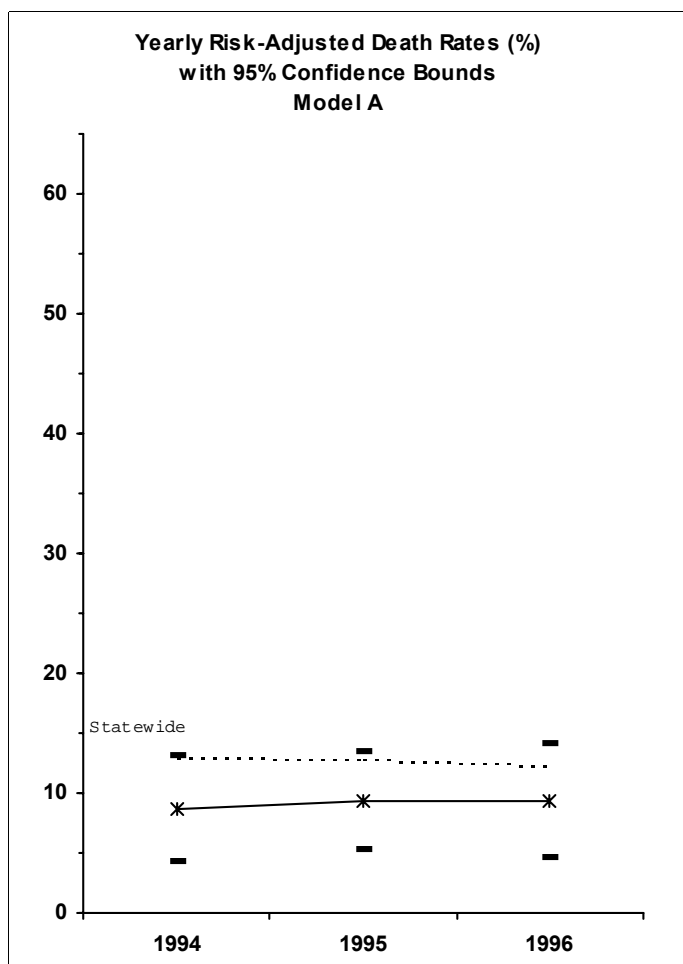
El Dorado County Summary

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

El Dorado County: Barton Memorial Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	242	23	29.5	4.8	9.5	12.2	9.9	5.9	13.9	0.100
	1994	13.0	89	9	10.7	2.8	10.1	12.0	10.9	4.1	17.6	0.344
	1995	12.8	90	8	11.6	3.0	8.9	12.9	8.8	2.3	15.3	0.149
	1996	12.3	63	6	7.2	2.4	9.5	11.5	10.3	2.2	18.3	0.399
Model B	All Years	12.7	242	23	26.2	4.3	9.5	10.8	11.2	7.1	15.2	0.271
	1994	12.9	89	9	9.6	2.6	10.1	10.8	12.1	5.2	19.1	0.499
	1995	12.8	90	8	11.1	2.7	8.9	12.4	9.2	3.1	15.3	0.163
	1996	12.4	63	6	5.4	2.0	9.5	8.6	13.6	4.5	22.7	0.468

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Office of Statewide Health Planning and Development
California Hospital Outcomes Project

Detailed Statistical Results
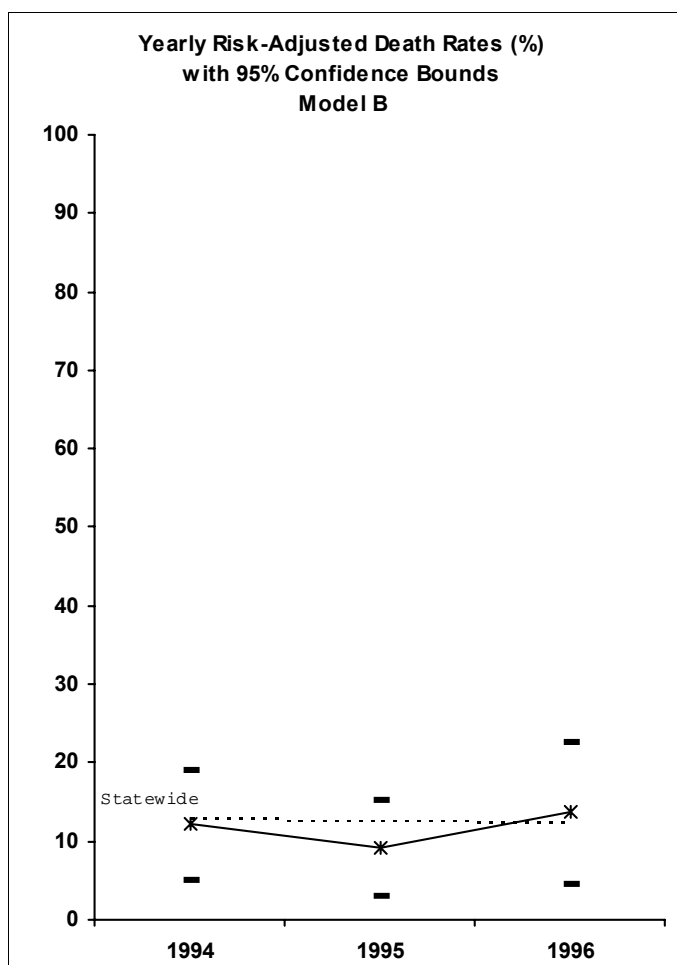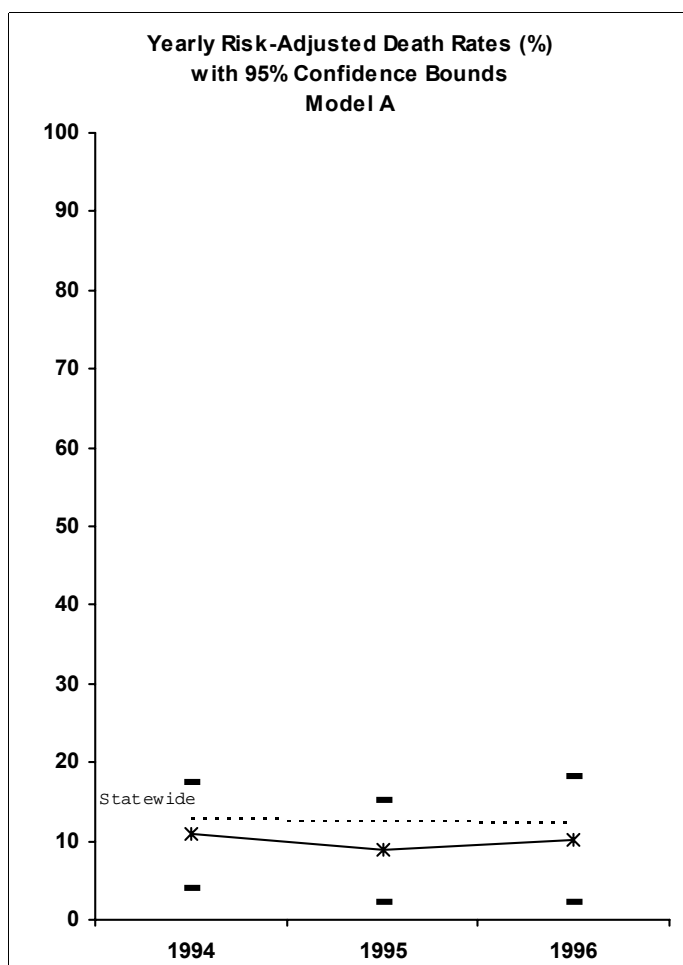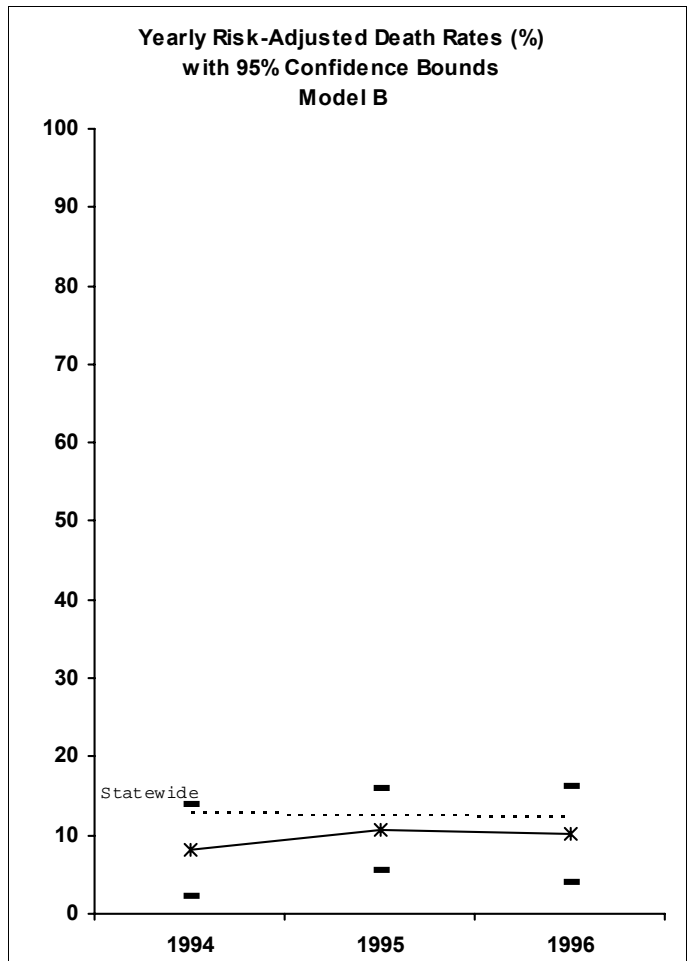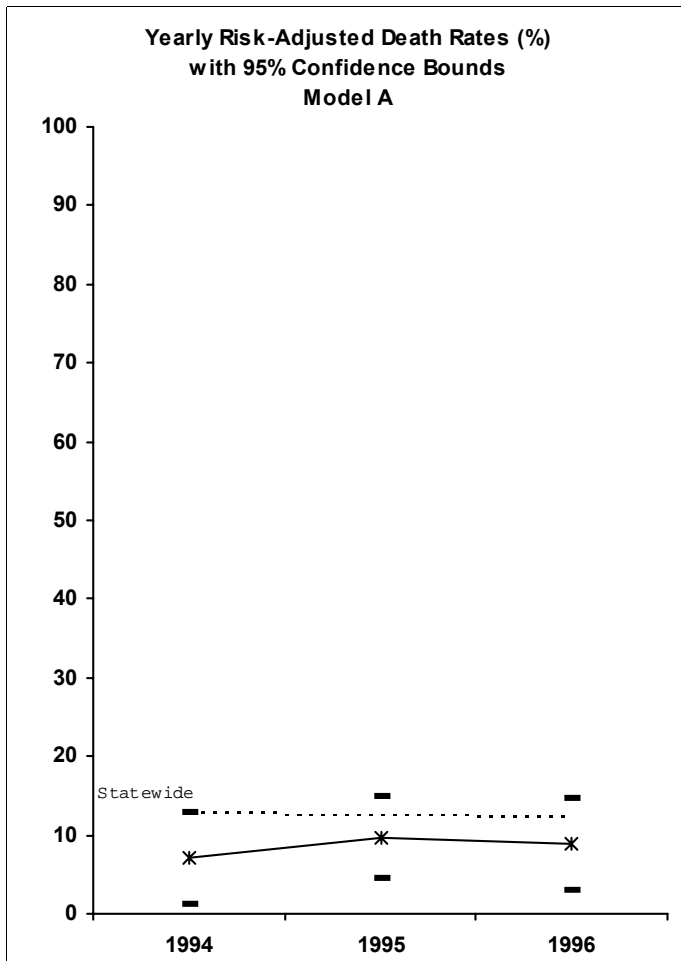## for Acute Myocardial Infarction Mortality

El Dorado County: Marshall Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	346	30	44.1	5.8	8.7	12.7	8.6	5.4	11.9	0.007
	1994	13.0	119	8	14.5	3.3	6.7	12.2	7.1	1.4	12.9	0.028
	1995	12.8	125	13	17.0	3.6	10.4	13.6	9.8	4.5	15.0	0.161
	1996	12.3	102	9	12.5	3.1	8.8	12.3	8.9	3.0	14.8	0.161
Model B	All Years	12.7	343	30	39.1	5.2	8.7	11.4	9.7	6.4	13.0	0.044
	1994	12.9	119	8	12.7	3.0	6.7	10.7	8.1	2.2	14.0	0.072
	1995	12.8	124	13	15.5	3.2	10.5	12.5	10.8	5.6	16.0	0.274
	1996	12.4	100	9	10.9	2.8	9.0	10.9	10.2	4.0	16.3	0.312

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County Summary

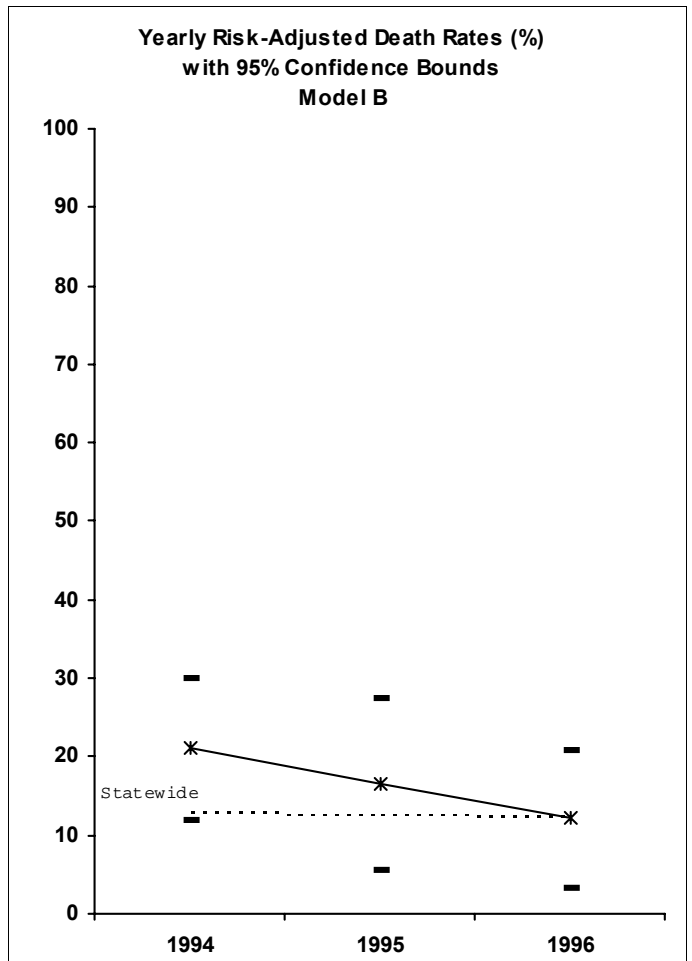|		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	10	2,990	373	373.4	16.9	12.5	12.5	12.7	11.6	13.8
	1994	13.0	10	984	113	122.6	9.7	11.5	12.5	12.0	9.9	14.0
	1995	12.8	10	978	134	127.5	9.8	13.7	13.0	13.4	11.5	15.4
	1996	12.3	10	1,028	126	123.3	9.8	12.3	12.0	12.6	10.7	14.5
Model B	All Years	12.7	10	2,963	369	346.9	15.3	12.5	11.7	13.5	12.4	14.6
	1994	12.9	10	976	112	109.1	8.7	11.5	11.2	13.3	11.3	15.3
	1995	12.8	10	972	134	122.5	9.0	13.8	12.6	14.0	12.2	15.9
	1996	12.4	10	1,015	123	115.3	8.9	12.1	11.4	13.2	11.3	15.1
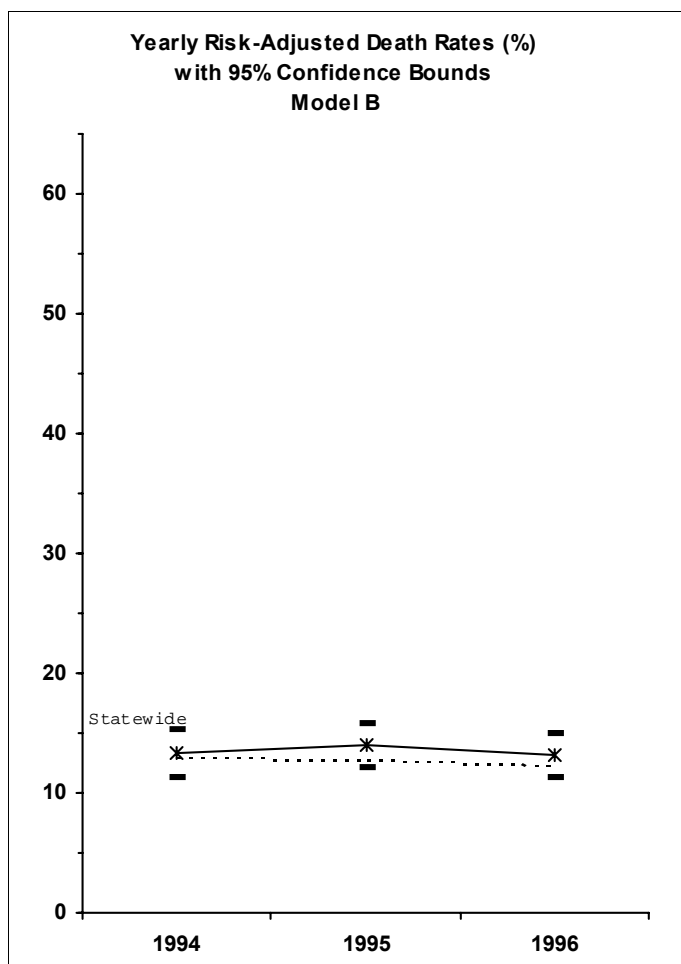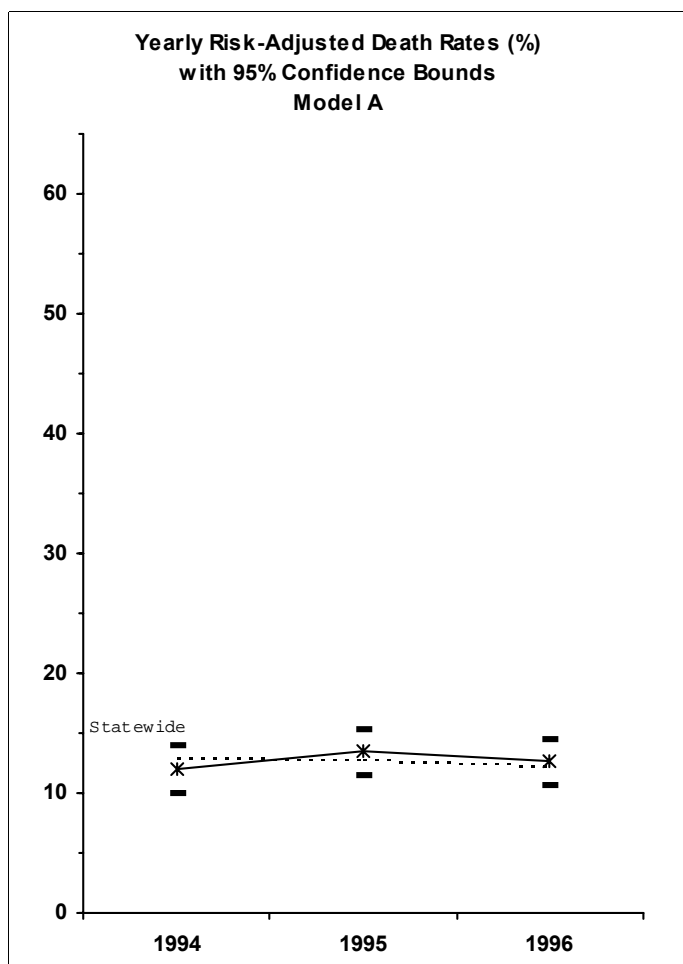
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Clovis Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	135	21	17.7	3.6	15.6	13.1	15.1	10.0	20.2	0.212
	1994	13.0	53	10	7.2	2.2	18.9	13.5	18.1	10.2	26.1	0.146
	1995	12.8	34	5	5.1	2.0	14.7	15.0	12.6	2.9	22.2	0.600
	1996	12.3	48	6	5.4	2.0	12.5	11.3	13.7	4.6	22.8	0.465
Model B	All Years	12.7	132	19	14.5	3.2	14.4	11.0	16.6	11.2	22.1	0.105
	1994	12.9	52	9	5.5	2.0	17.3	10.7	21.0	12.1	29.9	0.070
	1995	12.8	33	5	3.9	1.7	15.2	11.7	16.5	5.7	27.4	0.336
	1996	12.4	47	5	5.1	1.8	10.6	10.8	12.1	3.4	20.9	0.605
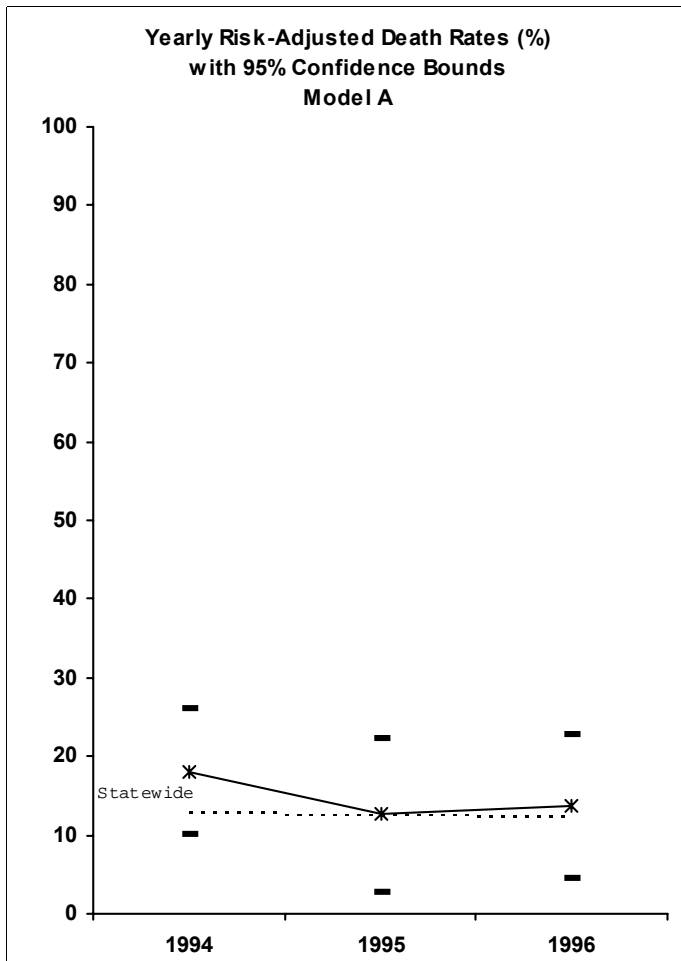
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Coalinga Regional Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	24	3	2.7	1.4	12.5	11.1	14.3	0.9	27.7	0.520
	1994	13.0	17	2	2.2	1.3	11.8	13.1	11.6	0.0	26.3	0.608
	1995	12.8	7	1	0.4	0.6	14.3	6.3	28.9	0.0	64.8	0.372
	1996	Excluded										
Model B	All Years	12.7	24	3	1.5	1.1	12.5	6.4	24.9	6.4	43.3	0.186
	1994	12.9	17	2	1.3	1.0	11.8	7.8	19.5	0.0	39.5	0.392
	1995	12.8	7	1	0.2	0.4	14.3	2.9	62.2	8.3	100.0	0.191
	1996	Excluded										
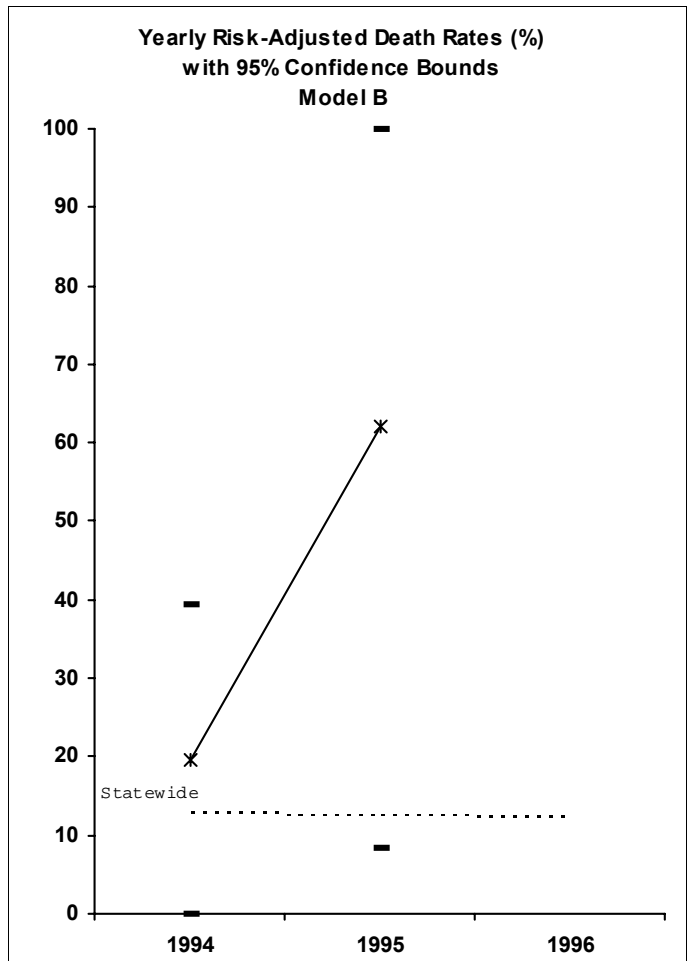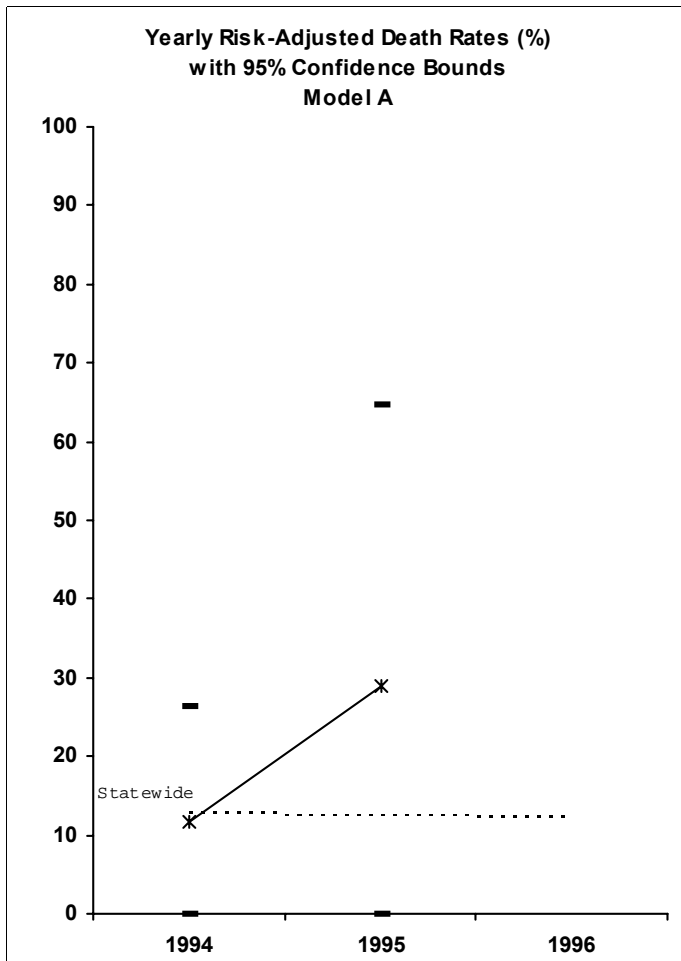
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Fresno Community Hospital and Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	866	98	112.6	9.3	11.3	13.0	11.1	9.0	13.1	0.062
	1994	13.0	355	34	47.5	6.0	9.6	13.4	9.3	6.1	12.5	0.013
	1995	12.8	244	32	34.1	5.0	13.1	14.0	12.0	8.3	15.7	0.380
	1996	12.3	267	32	31.0	5.0	12.0	11.6	12.7	8.9	16.6	0.452
Model B	All Years	12.7	858	98	100.0	8.4	11.4	11.7	12.4	10.4	14.5	0.431
	1994	12.9	349	34	40.8	5.3	9.7	11.7	10.8	7.5	14.1	0.117
	1995	12.8	242	32	32.0	4.6	13.2	13.2	12.8	9.2	16.5	0.533
	1996	12.4	267	32	27.3	4.5	12.0	10.2	14.5	10.5	18.5	0.174
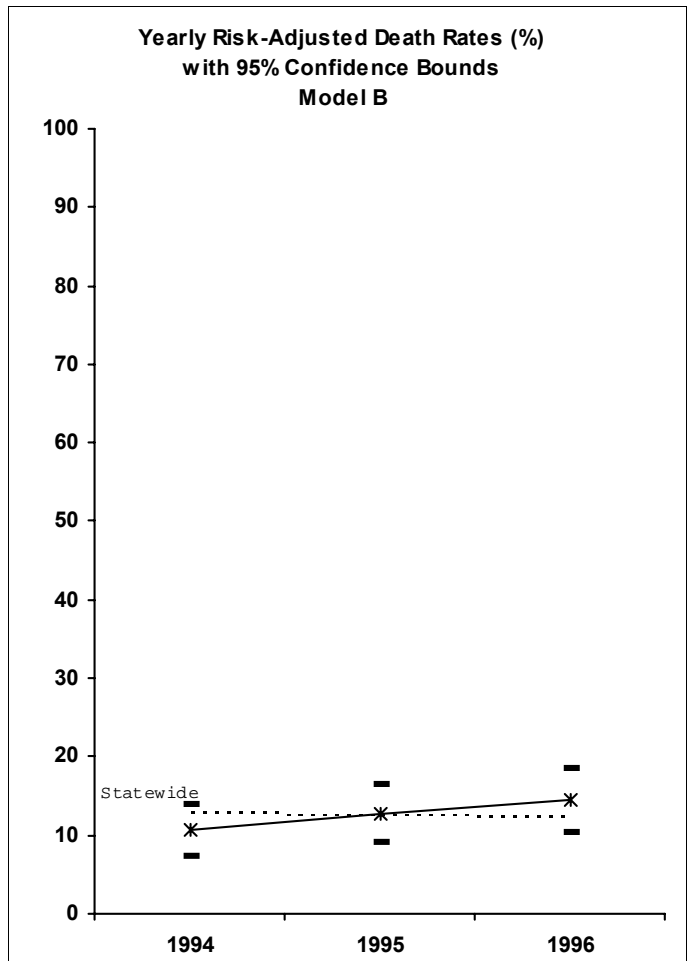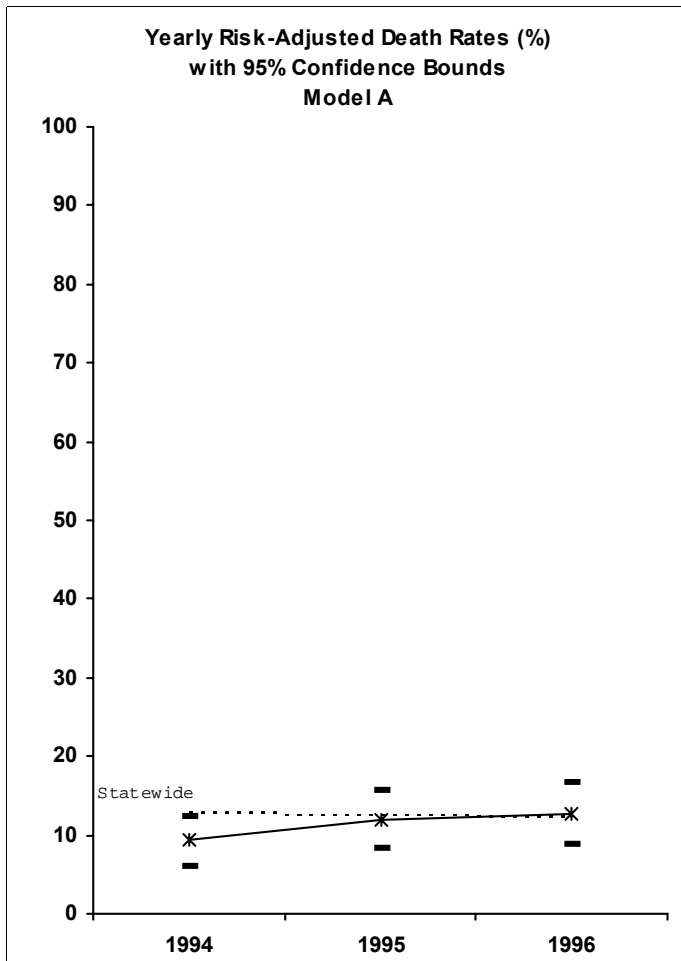
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Kaiser Foundation Hospital-Fresno‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	223	17	20.6	4.1	7.6	9.2	10.5	5.5	15.4	0.227
	1994	13.0	0									
	1995	12.8	99	8	9.8	2.8	8.1	9.9	10.4	3.2	17.6	0.327
	1996	12.3	124	9	10.8	3.0	7.3	8.7	10.3	3.6	17.0	0.346
Model B	All Years	12.7	217	16	17.1	3.5	7.4	7.9	11.9	6.7	17.0	0.443
	1994	12.9	0									
	1995	12.8	98	8	9.1	2.5	8.2	9.2	11.3	4.5	18.2	0.426
	1996	12.4	119	8	8.1	2.5	6.7	6.8	12.3	4.7	19.9	0.586
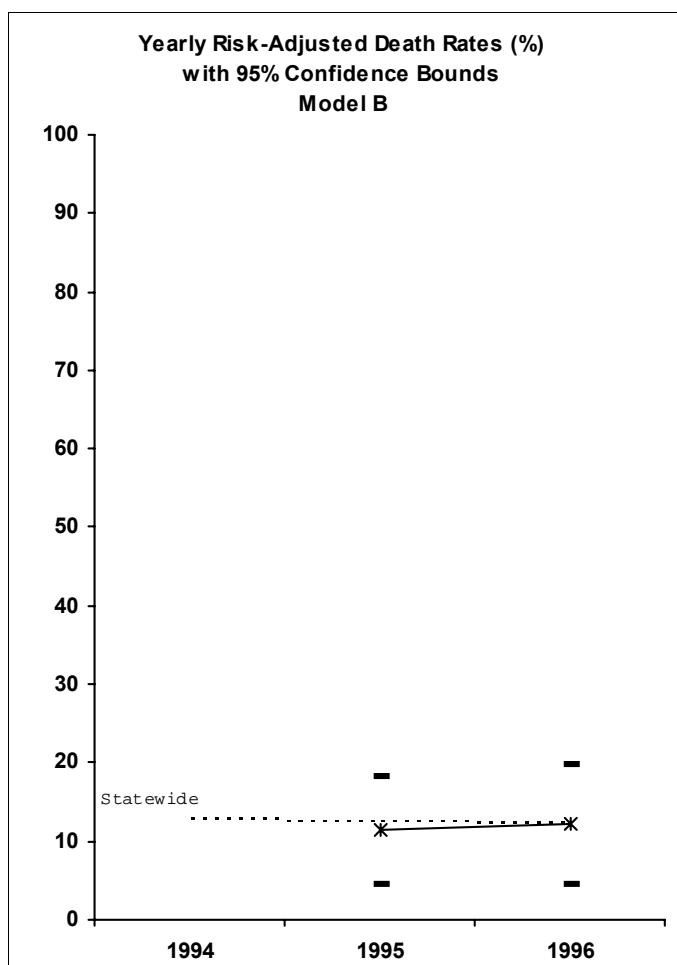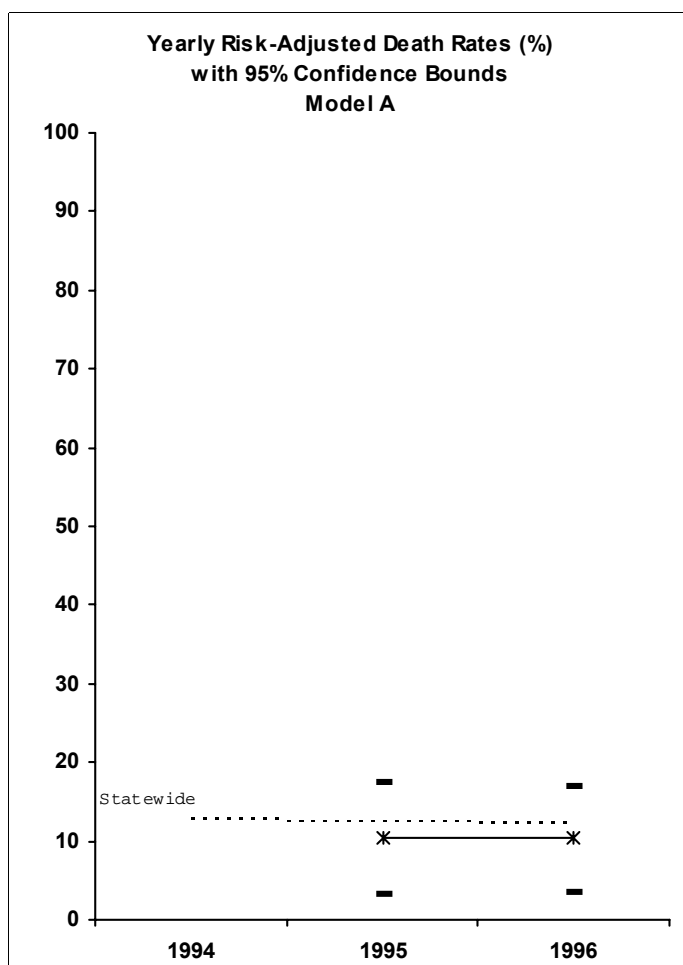
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Kingsburg District Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	2	1	0.6	0.6	50.0	32.4	19.6	0.0	43.9	0.562
	1994	13.0	2	1	0.6	0.6	50.0	32.4	20.0	0.0	44.8	0.562
	1995	12.8	0									
	1996	12.3	0									
Model B	All Years	12.7	2	1	0.6	0.6	50.0	27.7	22.9	0.0	51.2	0.479
	1994	12.9	2	1	0.6	0.6	50.0	27.7	23.3	0.0	52.1	0.479
	1995	12.8	0									
	1996	12.4	0									

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Sanger General Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	5	0	1.0	0.9	0.0	19.6	0.0	0.0	21.9	0.323
	1994	13.0	1	0	0.1	0.3	0.0	7.7	0.0	0.0	88.1	0.923
	1995	12.8	2	0	0.4	0.6	0.0	21.9	0.0	0.0	33.5	0.610
	1996	12.3	2	0	0.5	0.6	0.0	23.3	0.0	0.0	29.8	0.575
Model B	All Years	12.7	5	0	0.7	0.7	0.0	13.2	0.0	0.0	27.9	0.485
	1994	12.9	1	0	0.0	0.2	0.0	4.0	0.0	0.0	100.0	0.960
	1995	12.8	2	0	0.3	0.5	0.0	13.1	0.0	0.0	45.5	0.754
	1996	12.4	2	0	0.4	0.5	0.0	17.8	0.0	0.0	36.1	0.670
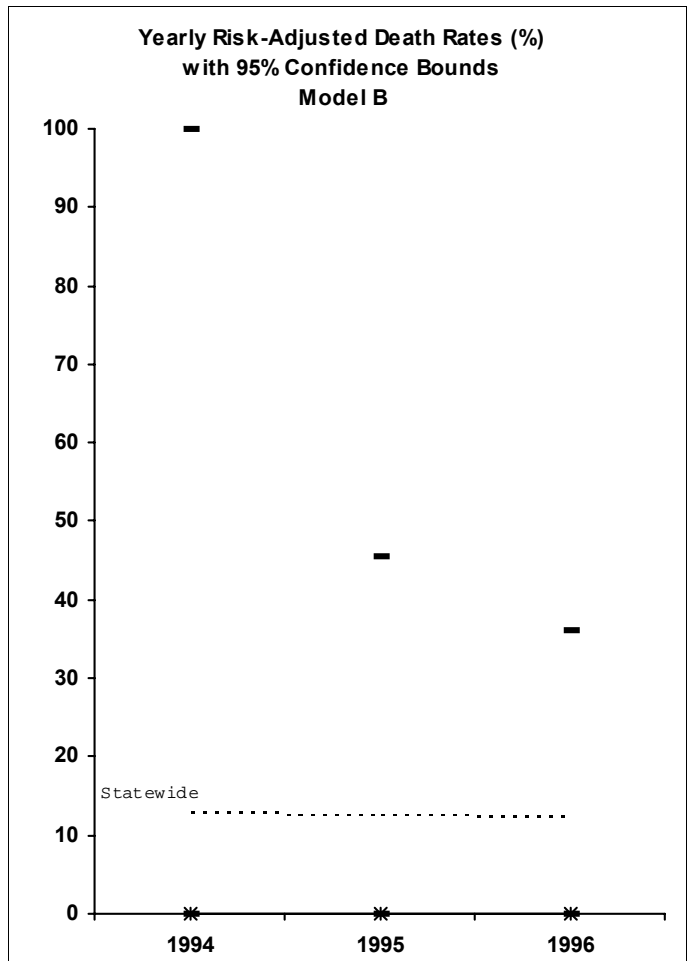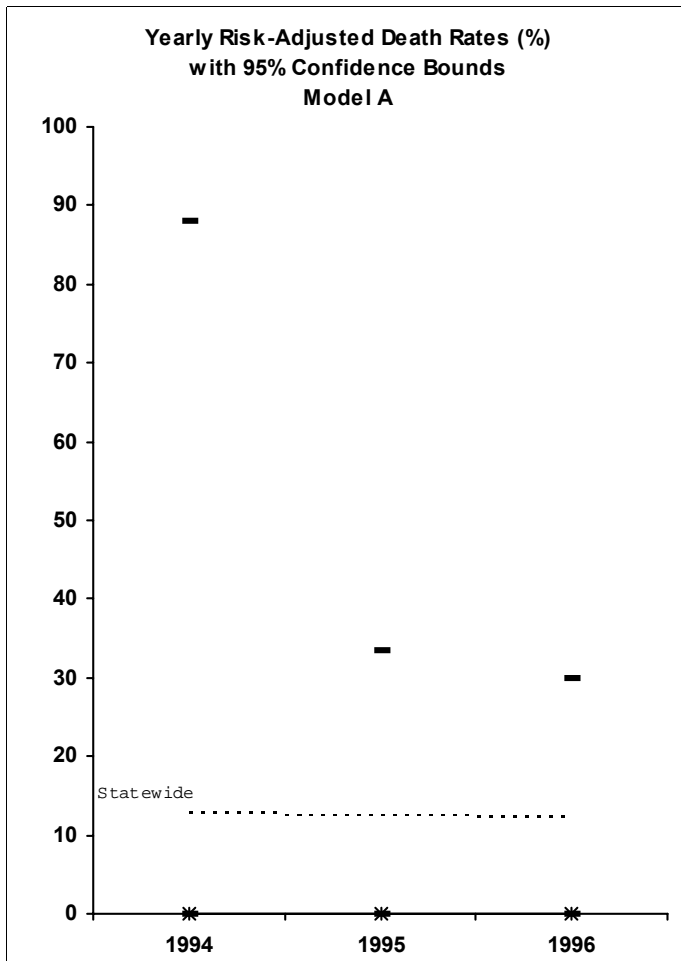
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Selma District Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	Excluded										
	1994											
	1995											
	1996											
Model B	All Years	Excluded										
	1994											
	1995											
	1996											

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: Sierra Hospital-Fresno

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	26	4	2.7	1.5	15.4	10.5	18.7	5.0	32.4	0.283
	1994	13.0	16	1	1.5	1.1	6.3	9.1	8.9	0.0	28.1	0.560
	1995	12.8	10	3	1.3	1.0	30.0	12.7	30.3	10.1	50.6	0.116
	1996	12.3	0									
Model B	All Years	12.7	26	4	2.8	1.4	15.4	10.6	18.4	5.5	31.2	0.287
	1994	12.9	16	1	1.5	1.0	6.3	9.1	8.9	0.0	26.8	0.554
	1995	12.8	10	3	1.3	1.0	30.0	13.1	29.3	10.3	48.3	0.117
	1996	12.4	0									
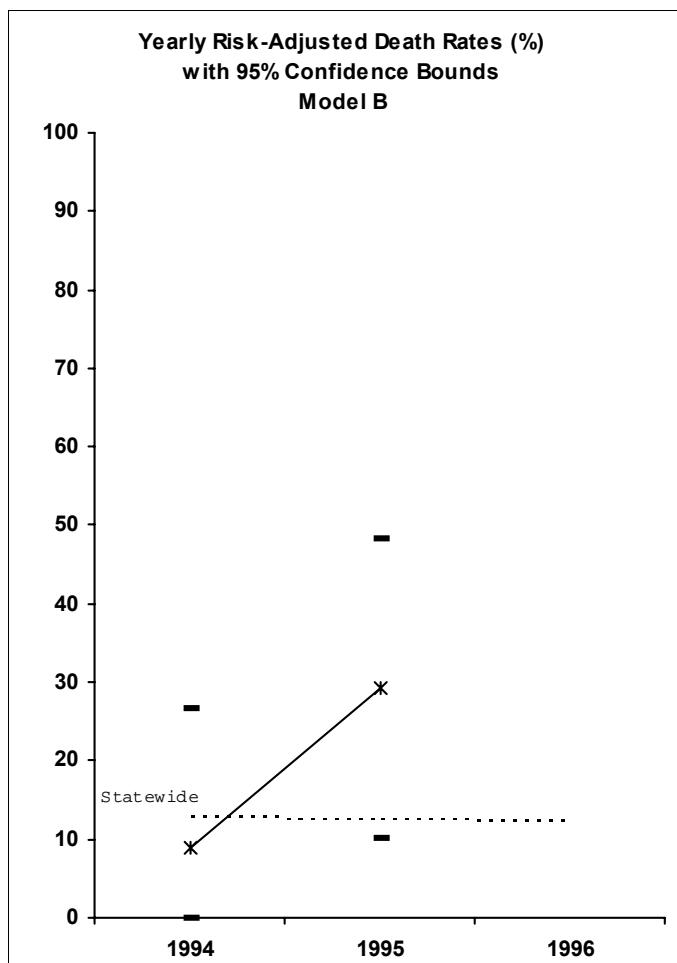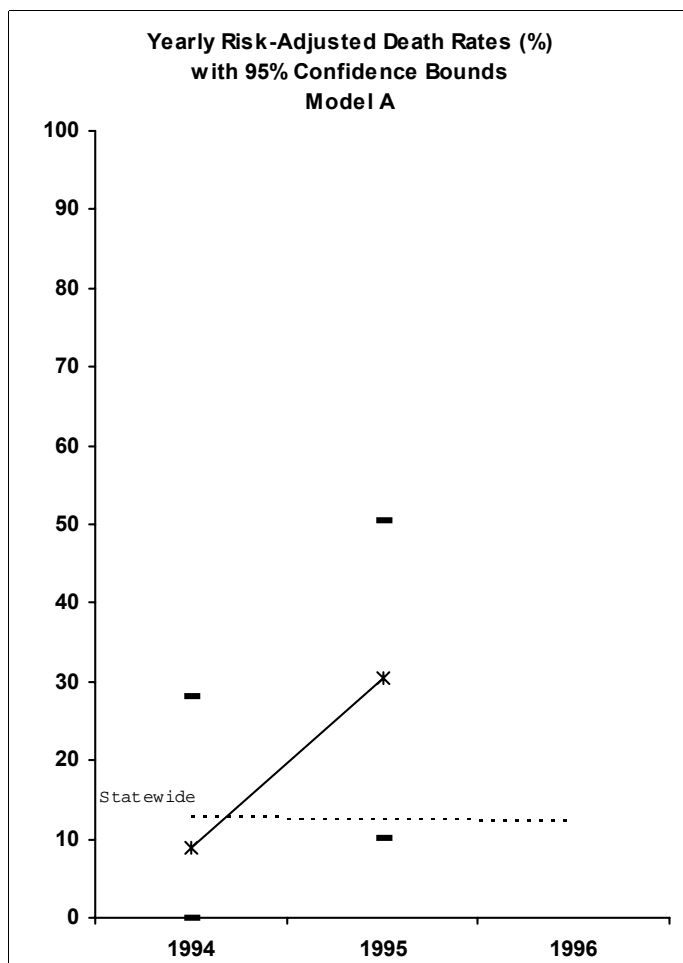
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Fresno County: Sierra Kings Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	17	2	2.7	1.4	11.8	15.7	9.5	0.0	22.5	0.477
	1994	13.0	3	0	0.6	0.7	0.0	21.0	0.0	0.0	26.7	0.472
	1995	12.8	7	1	0.5	0.7	14.3	7.1	25.8	0.0	59.9	0.404
	1996	12.3	7	1	1.5	1.0	14.3	22.0	8.0	0.0	24.0	0.511
Model B	All Years	12.7	17	2	1.7	1.2	11.8	10.2	14.6	0.0	31.7	0.541
	1994	12.9	3	0	0.4	0.6	0.0	13.3	0.0	0.0	35.9	0.641
	1995	12.8	7	1	0.3	0.6	14.3	4.9	37.7	0.0	79.5	0.296
	1996	12.4	7	1	1.0	0.9	14.3	14.3	12.4	0.0	33.8	0.739
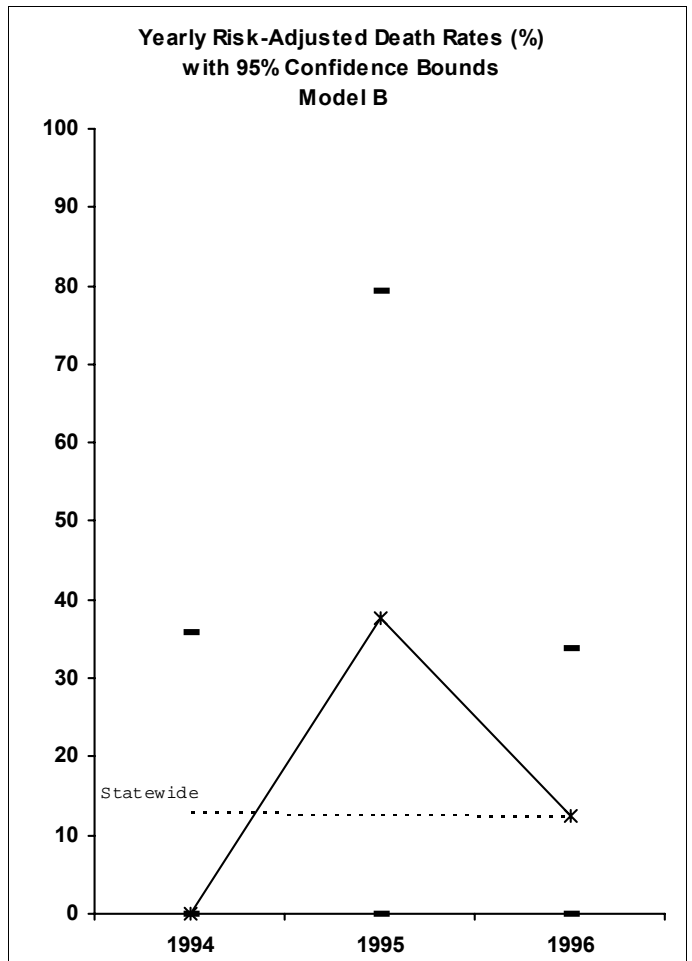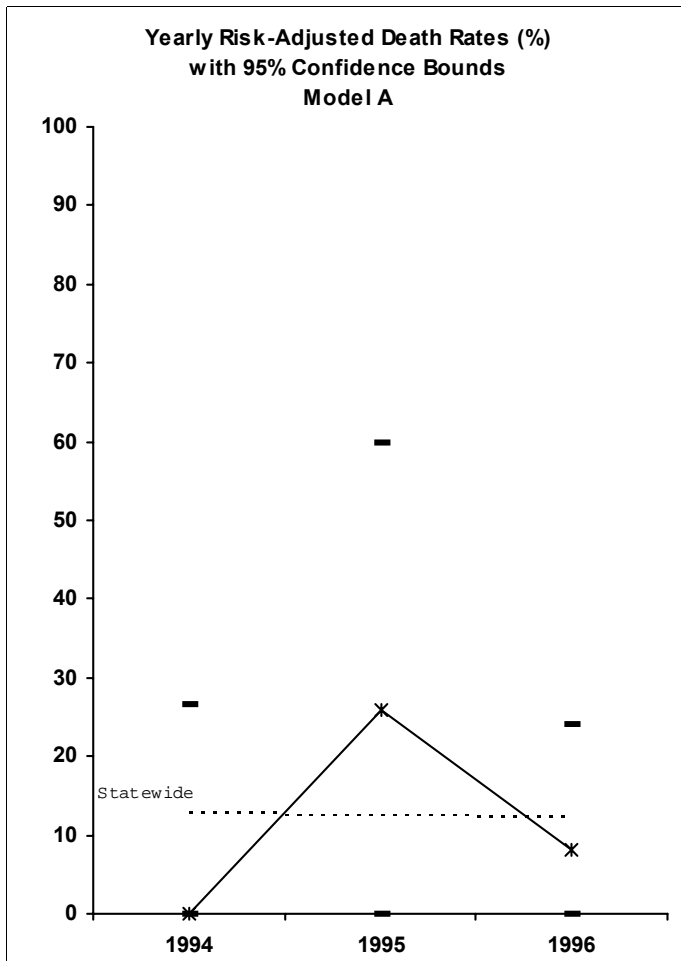
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Fresno County: St. Agnes Medical Center‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	1430	182	182.4	11.9	12.7	12.8	12.7	11.1	14.3	0.508
	1994	13.0	443	51	52.5	6.5	11.5	11.8	12.6	9.5	15.7	0.446
	1995	12.8	499	66	66.1	7.1	13.2	13.2	12.8	10.1	15.5	0.528
	1996	12.3	488	65	63.8	7.0	13.3	13.1	12.6	9.9	15.2	0.454
Model B	All Years	12.7	1420	181	177.4	10.8	12.7	12.5	13.0	11.4	14.5	0.385
	1994	12.9	442	51	46.5	5.7	11.5	10.5	14.2	11.0	17.3	0.242
	1995	12.8	497	66	66.6	6.5	13.3	13.4	12.7	10.2	15.1	0.496
	1996	12.4	481	64	64.2	6.4	13.3	13.4	12.3	9.9	14.7	0.520
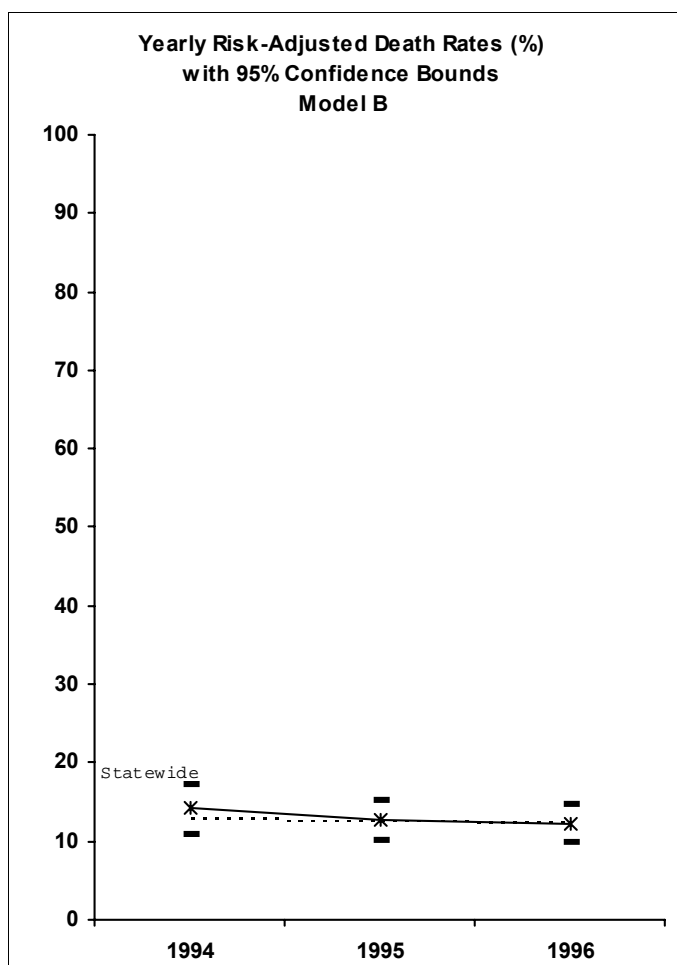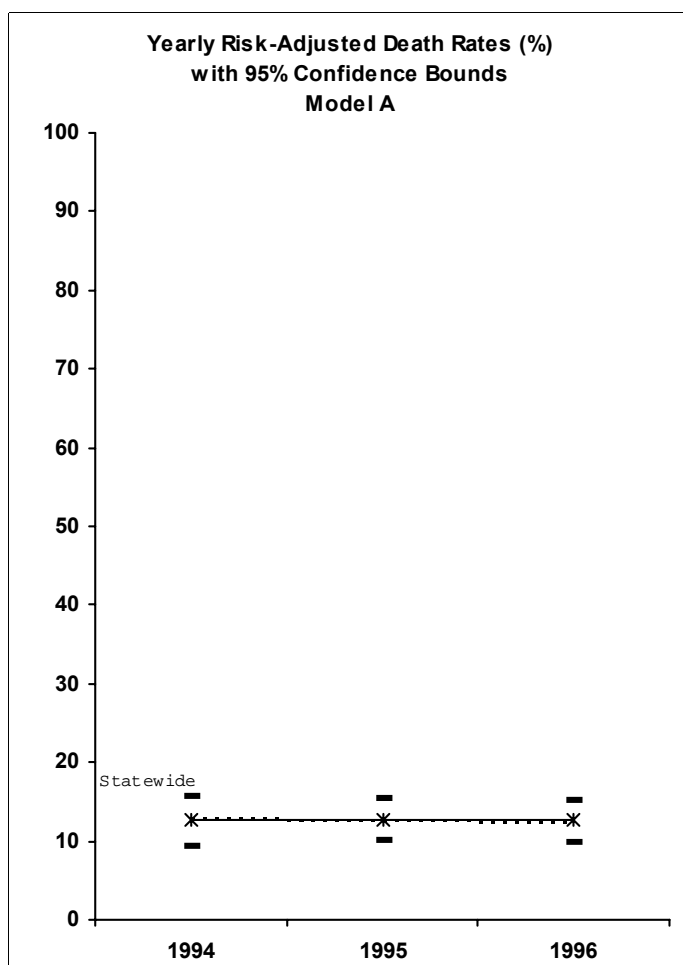
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Fresno County: University Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	262	45	30.5	4.8	17.2	11.6	18.8	14.8	22.7	0.003
	1994	13.0	94	14	10.5	2.8	14.9	11.1	17.4	10.5	24.2	0.142
	1995	12.8	76	18	9.7	2.7	23.7	12.8	23.6	16.7	30.5	0.003
	1996	12.3	92	13	10.3	2.9	14.1	11.2	15.6	8.9	22.3	0.215
Model B	All Years	12.7	262	45	30.6	4.5	17.2	11.7	18.7	15.0	22.3	0.001
	1994	12.9	94	14	12.4	2.7	14.9	13.2	14.5	9.1	20.0	0.337
	1995	12.8	76	18	8.9	2.5	23.7	11.7	25.9	19.0	32.9	0.001
	1996	12.4	92	13	9.3	2.6	14.1	10.1	17.3	10.5	24.2	0.111

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

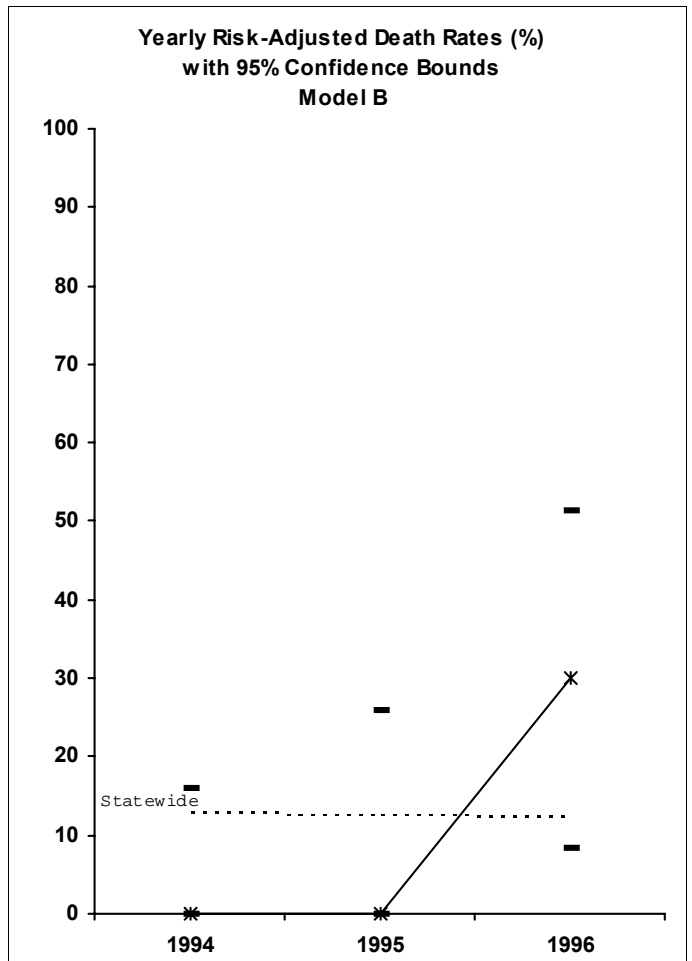|		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	1	13	2	3.3	1.4	15.4	25.5	7.7	0.0	18.5
	1994	13.0	1	4	0	1.4	0.9	0.0	34.6	0.0	0.0	16.1
	1995	12.8	1	4	0	1.0	0.8	0.0	24.0	0.0	0.0	21.1
	1996	12.3	1	5	2	1.0	0.8	40.0	19.3	25.6	5.2	45.9
Model B	All Years	12.7	1	13	2	2.8	1.3	15.4	21.8	9.0	0.0	20.6
	1994	12.9	1	4	0	1.3	0.8	0.0	32.1	0.0	0.0	15.9
	1995	12.8	1	4	0	0.7	0.7	0.0	18.0	0.0	0.0	26.1
	1996	12.4	1	5	2	0.8	0.7	40.0	16.5	30.0	8.4	51.5
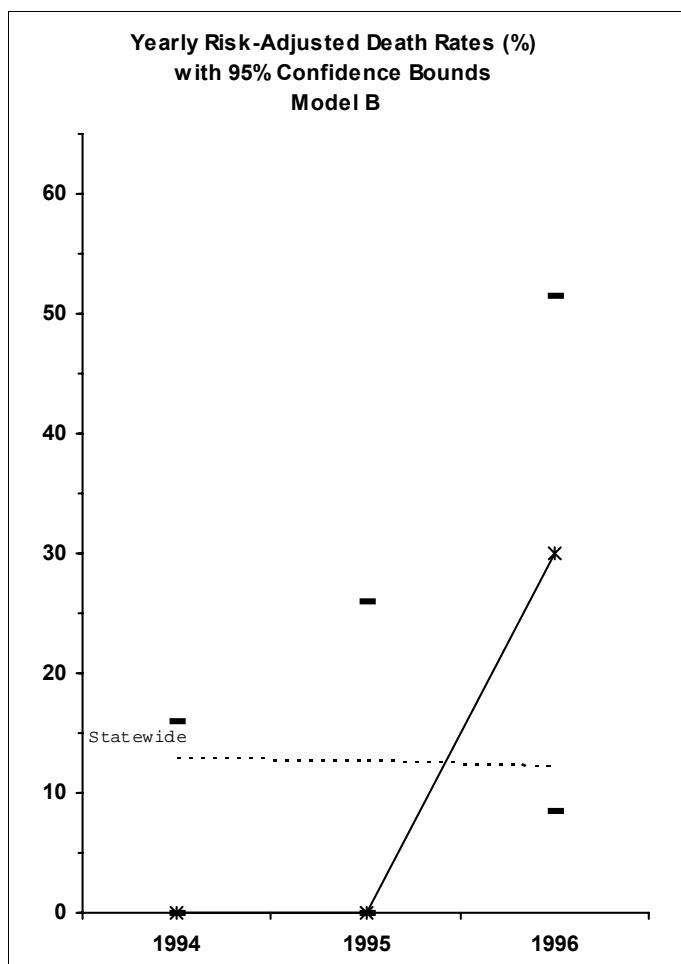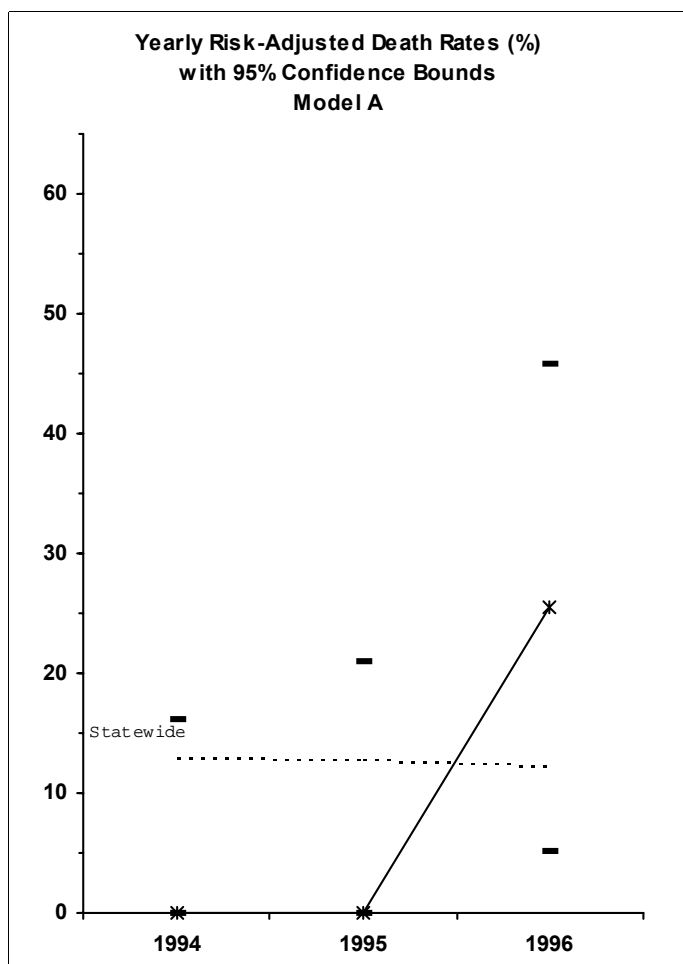
Glenn County Summary

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Glenn County: Glenn Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	13	2	3.3	1.4	15.4	25.5	7.7	0.0	18.5	0.296
	1994	13.0	4	0	1.4	0.9	0.0	34.6	0.0	0.0	16.1	0.160
	1995	12.8	4	0	1.0	0.8	0.0	24.0	0.0	0.0	21.1	0.310
	1996	12.3	5	2	1.0	0.8	40.0	19.3	25.6	5.2	45.9	0.240
Model B	All Years	12.7	13	2	2.8	1.3	15.4	21.8	9.0	0.0	20.6	0.418
	1994	12.9	4	0	1.3	0.8	0.0	32.1	0.0	0.0	15.9	0.158
	1995	12.8	4	0	0.7	0.7	0.0	18.0	0.0	0.0	26.1	0.441
	1996	12.4	5	2	0.8	0.7	40.0	16.5	30.0	8.4	51.5	0.169

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
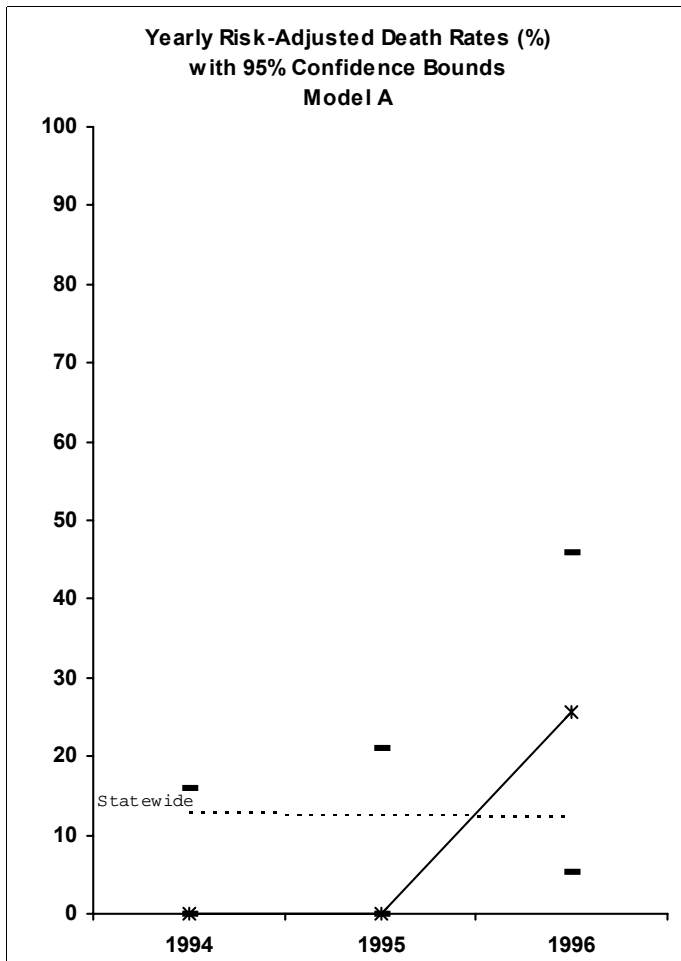with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

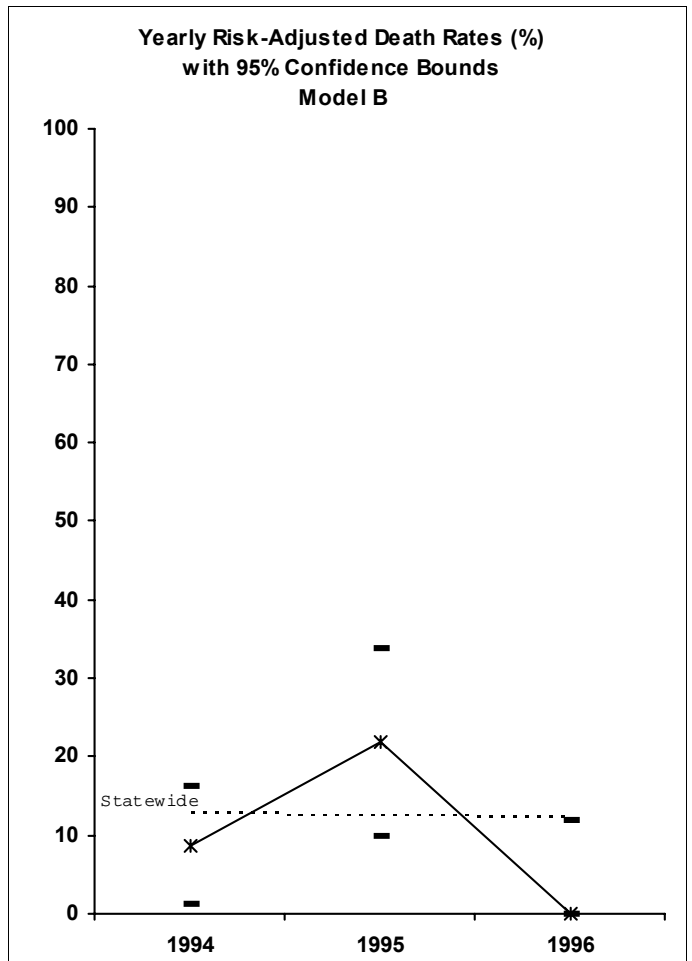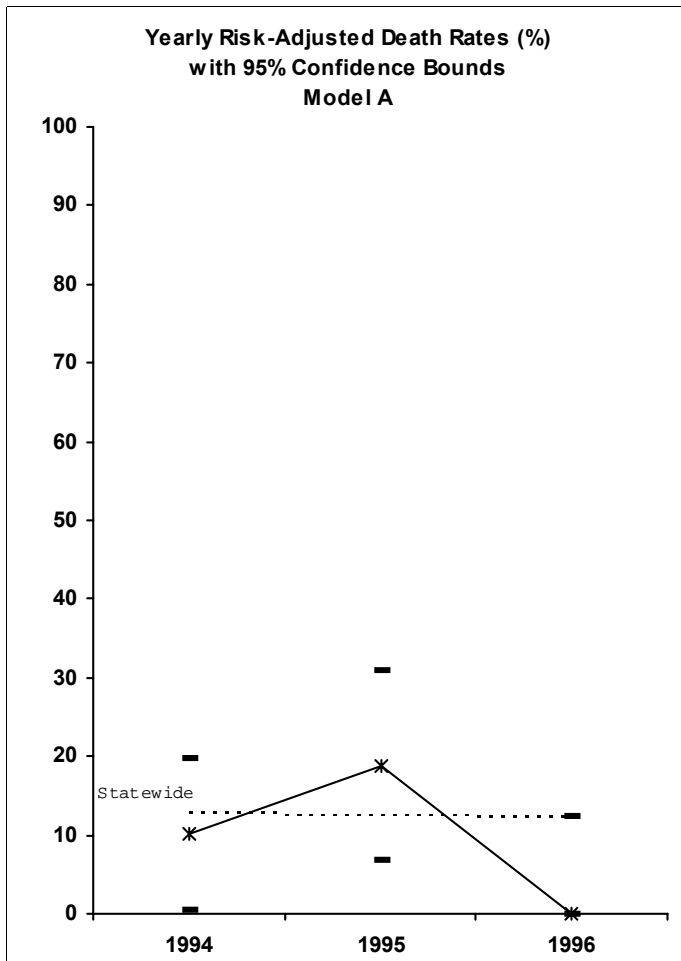|		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Humboldt County Summary												
Model A	All Years	12.7	5	596	83	82.6	7.9	13.9	13.9	12.8	10.4	15.1
	1994	13.0	5	226	33	32.9	4.9	14.6	14.6	13.0	9.2	16.8
	1995	12.8	5	207	26	29.6	4.7	12.6	14.3	11.2	7.3	15.2
	1996	12.3	5	163	24	20.1	3.9	14.7	12.3	14.7	10.0	19.5
Model B	All Years	12.7	5	593	82	73.4	7.1	13.8	12.4	14.2	11.8	16.6
	1994	12.9	5	226	33	30.4	4.5	14.6	13.5	14.0	10.3	17.8
	1995	12.8	5	206	26	23.6	4.1	12.6	11.5	14.1	9.8	18.4
	1996	12.4	5	161	23	19.4	3.7	14.3	12.0	14.7	10.1	19.2
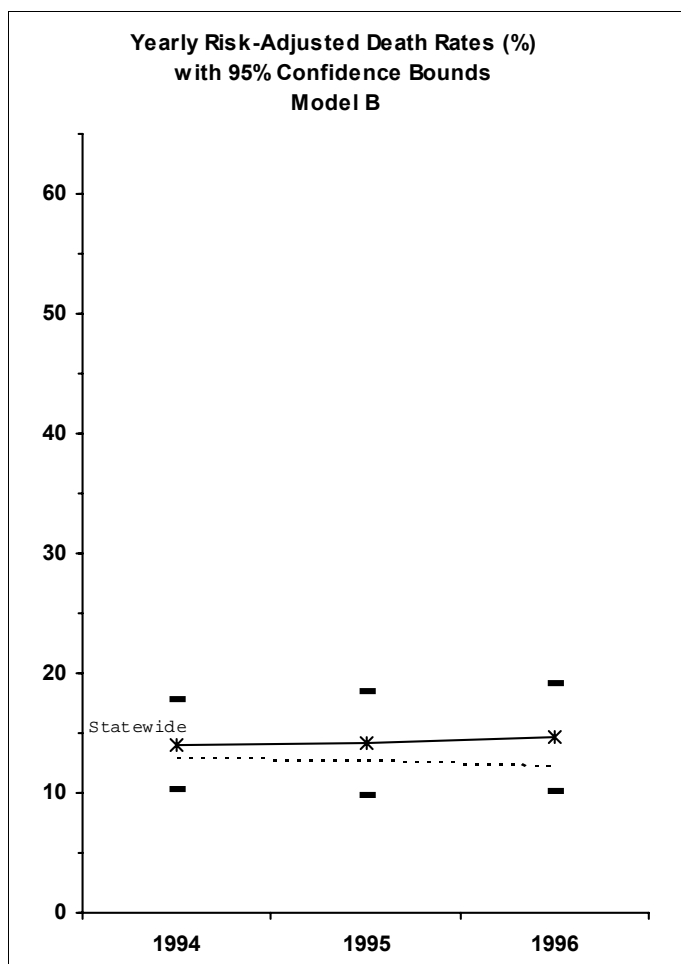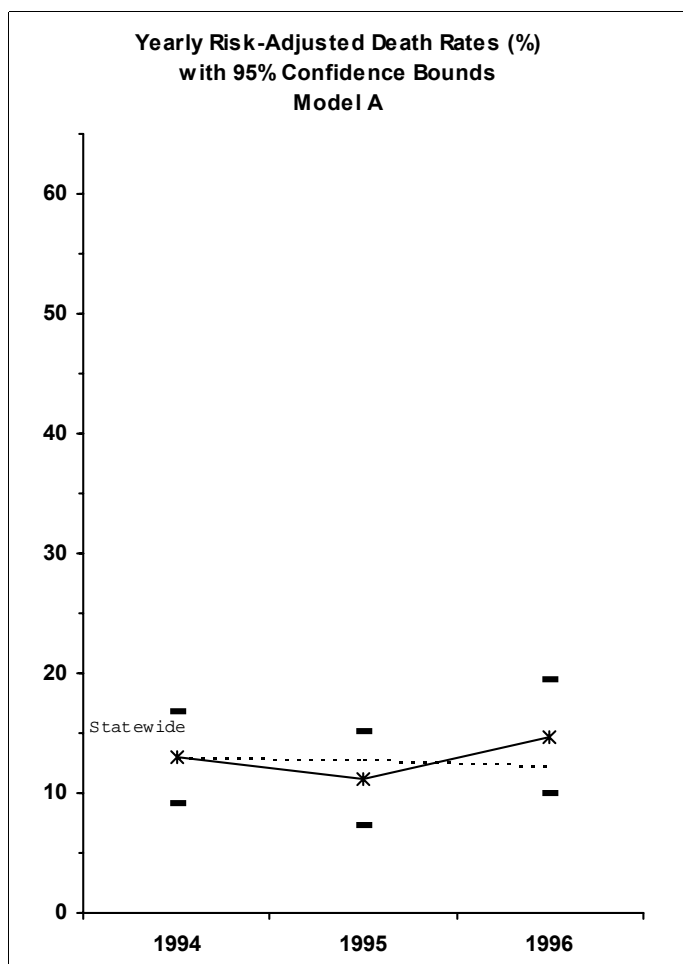
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Humboldt County: General Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	82	9	11.2	2.9	11.0	13.7	10.2	3.8	16.6	0.285
	1994	13.0	32	4	5.1	1.9	12.5	16.0	10.1	0.5	19.8	0.392
	1995	12.8	27	5	3.4	1.6	18.5	12.5	18.9	6.9	30.9	0.236
	1996	12.3	23	0	2.7	1.4	0.0	11.7	0.0	0.0	12.5	0.041
Model B	All Years	12.7	82	9	11.5	2.6	11.0	14.0	10.0	4.3	15.6	0.227
	1994	12.9	32	4	5.9	1.8	12.5	18.4	8.8	1.2	16.3	0.215
	1995	12.8	27	5	2.9	1.4	18.5	10.8	21.9	9.9	33.9	0.130
	1996	12.4	23	0	2.7	1.3	0.0	11.6	0.0	0.0	12.0	0.036

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Humboldt County: Mad River Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	184	23	25.5	4.4	12.5	13.8	11.5	7.2	15.8	0.335
	1994	13.0	60	8	8.9	2.6	13.3	14.8	11.7	4.4	19.1	0.459
	1995	12.8	67	6	8.9	2.6	9.0	13.3	8.6	1.2	16.0	0.179
	1996	12.3	57	9	7.7	2.4	15.8	13.5	14.5	6.8	22.1	0.356
Model B	All Years	12.7	184	23	19.9	3.8	12.5	10.8	14.7	9.9	19.4	0.246
	1994	12.9	60	8	7.1	2.2	13.3	11.9	14.5	6.6	22.4	0.418
	1995	12.8	67	6	6.3	2.3	9.0	9.5	12.1	3.2	21.1	0.548
	1996	12.4	57	9	6.5	2.1	15.8	11.3	17.2	9.2	25.2	0.167
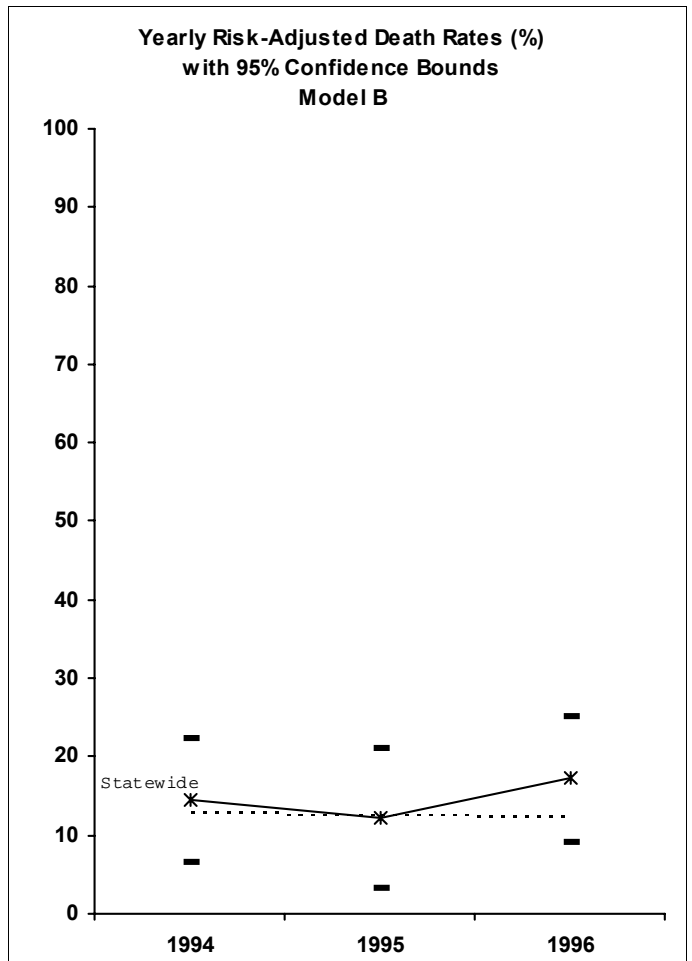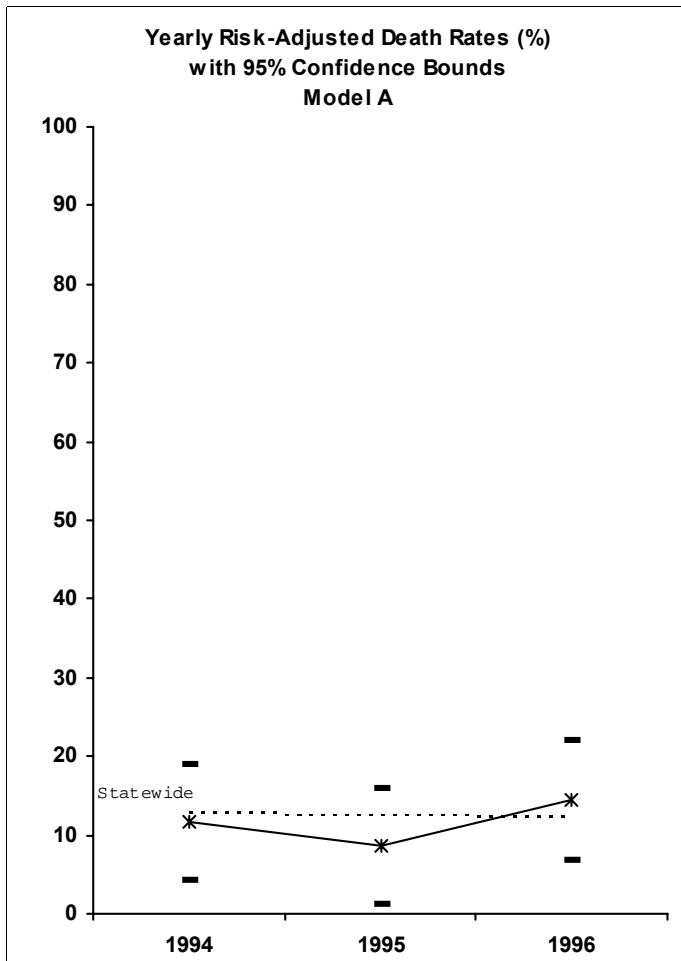
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Humboldt County: Redwood Memorial Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	107	22	17.2	3.5	20.6	16.1	16.3	11.1	21.4	0.113
	1994	13.0	44	12	7.0	2.3	27.3	16.0	22.1	13.8	30.5	0.032
	1995	12.8	34	7	6.1	2.0	20.6	18.0	14.6	6.3	22.9	0.412
	1996	12.3	29	3	4.0	1.8	10.3	13.9	9.2	0.0	19.8	0.402
Model B	All Years	12.7	107	22	16.2	3.3	20.6	15.2	17.2	12.1	22.3	0.060
	1994	12.9	44	12	7.7	2.2	27.3	17.5	20.1	12.8	27.5	0.048
	1995	12.8	34	7	4.9	1.8	20.6	14.4	18.3	8.9	27.8	0.188
	1996	12.4	29	3	3.7	1.6	10.3	12.6	10.1	0.0	20.9	0.483
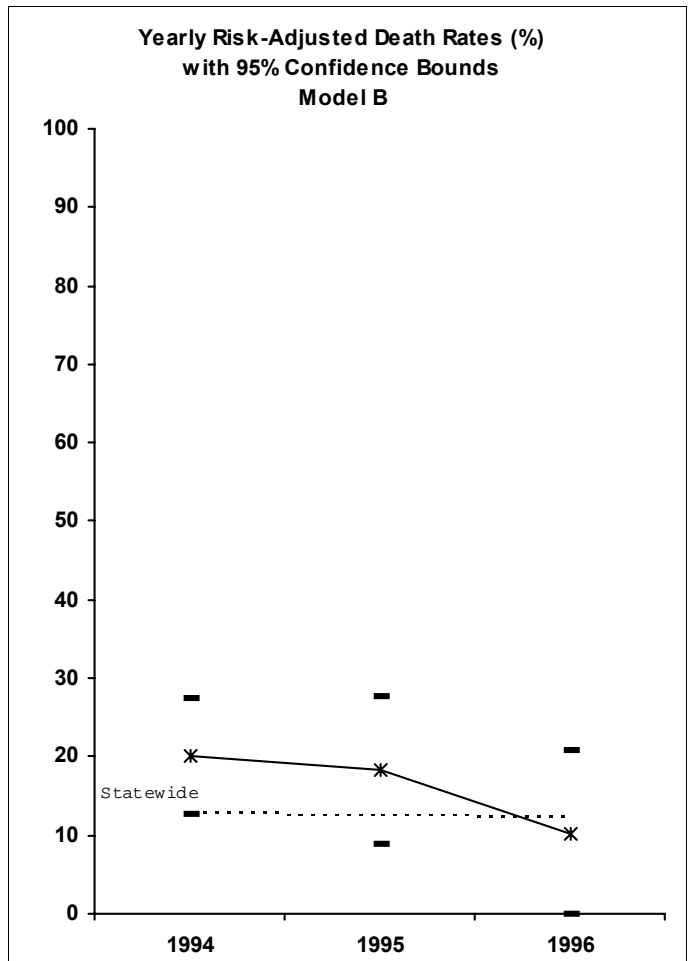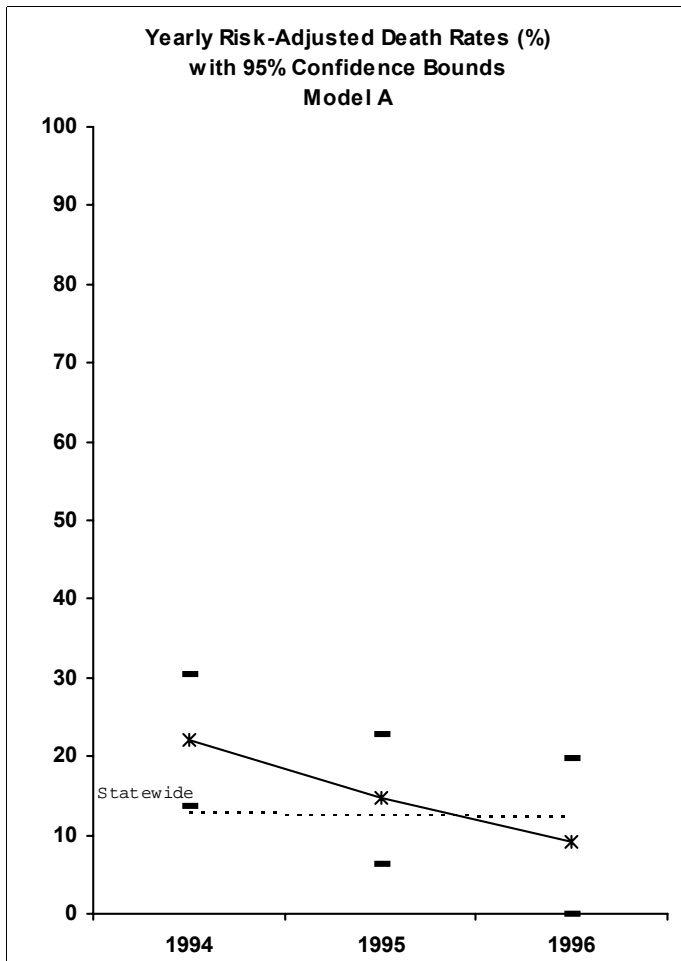
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Humboldt County: So. Humboldt Community Hospital District

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	29	3	3.1	1.6	10.3	10.7	12.2	0.0	24.7	0.621
	1994	13.0	9	0	0.6	0.7	0.0	6.7	0.0	0.0	30.7	0.525
	1995	12.8	9	0	1.0	0.9	0.0	11.5	0.0	0.0	21.7	0.306
	1996	12.3	11	3	1.5	1.0	27.3	13.4	25.1	7.9	42.3	0.160
Model B	All Years	12.7	29	3	2.0	1.3	10.3	6.8	19.3	3.2	35.4	0.314
	1994	12.9	9	0	0.4	0.6	0.0	4.5	0.0	0.0	36.8	0.643
	1995	12.8	9	0	0.6	0.7	0.0	6.5	0.0	0.0	30.3	0.529
	1996	12.4	11	3	1.0	0.9	27.3	8.9	37.8	16.0	59.6	0.054
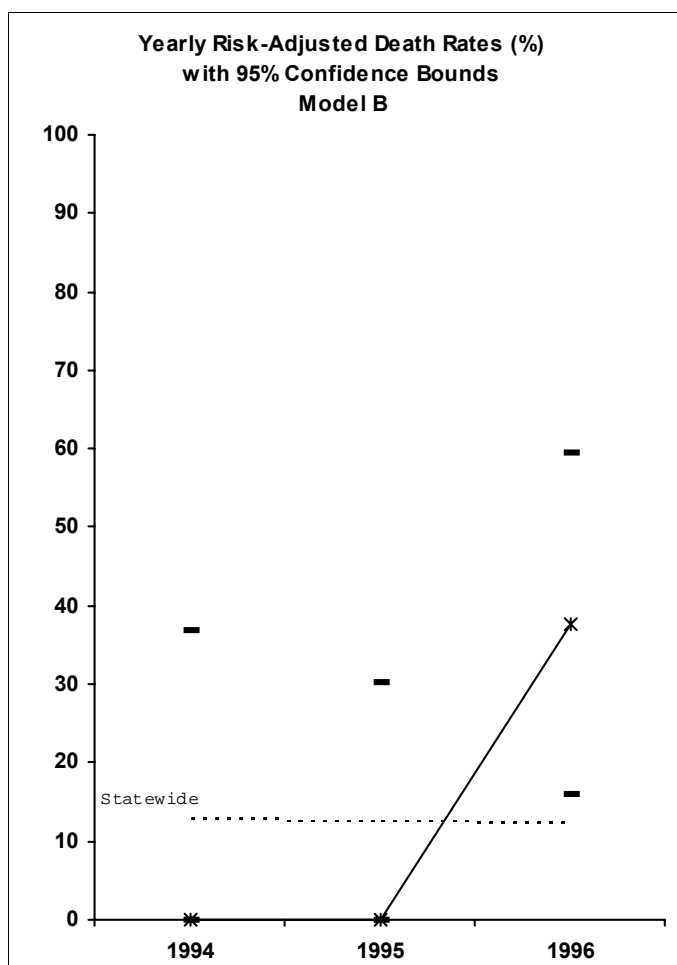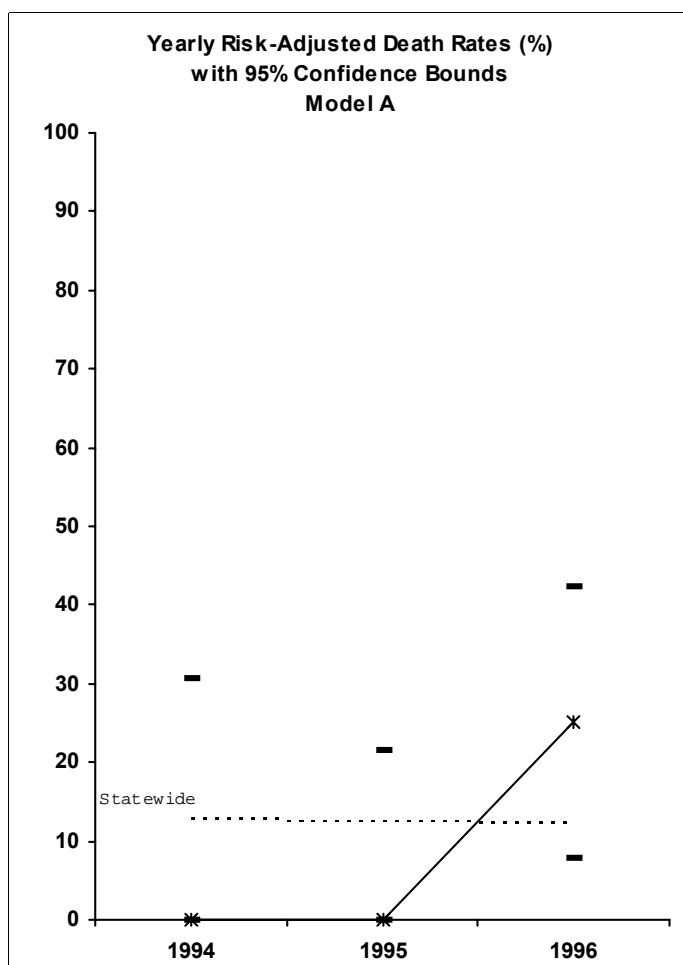
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Humboldt County: St. Joseph Hospital-Eureka

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	194	26	25.7	4.4	13.4	13.2	12.9	8.6	17.1	0.509
	1994	13.0	81	9	11.3	2.9	11.1	14.0	10.3	3.9	16.7	0.268
	1995	12.8	70	8	10.2	2.7	11.4	14.5	10.1	3.4	16.8	0.278
	1996	12.3	43	9	4.2	1.9	20.9	9.8	26.4	15.6	37.1	0.017
Model B	All Years	12.7	191	25	23.8	4.0	13.1	12.5	13.4	9.2	17.6	0.421
	1994	12.9	81	9	9.3	2.6	11.1	11.5	12.5	5.4	19.6	0.545
	1995	12.8	69	8	8.9	2.4	11.6	12.9	11.6	4.8	18.3	0.449
	1996	12.4	41	8	5.6	1.9	19.5	13.7	17.6	9.4	25.9	0.159
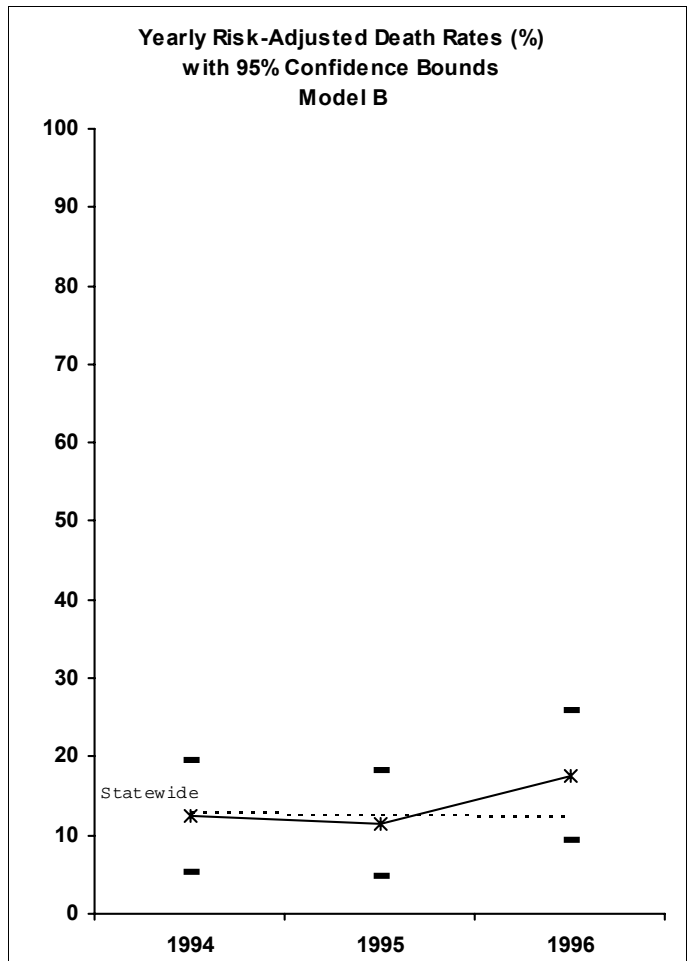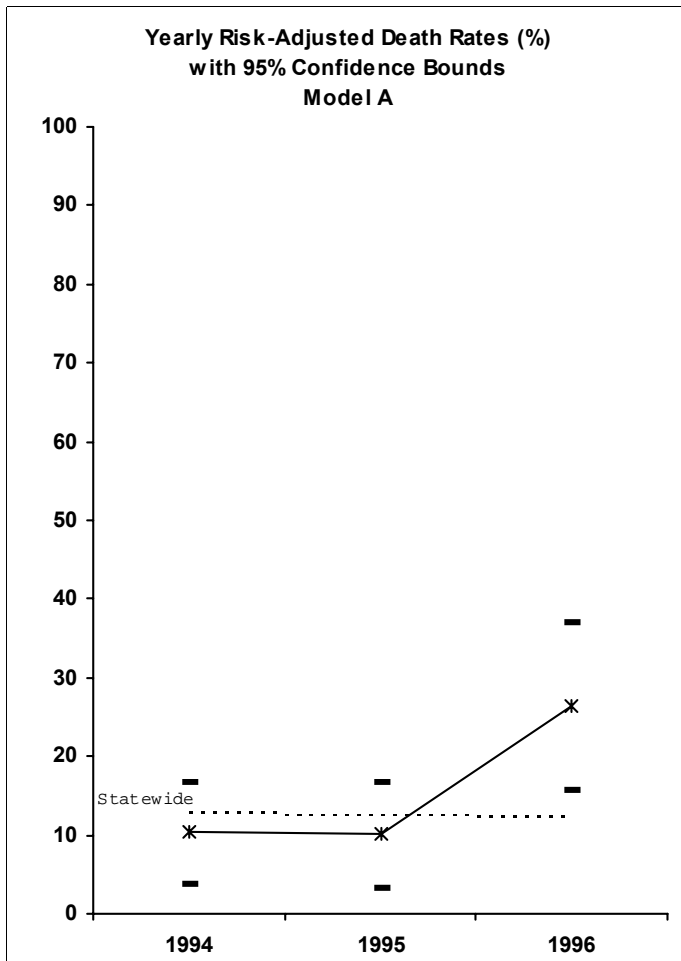
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Imperial County Summary												
		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	3	387	70	48.8	6.1	18.1	12.6	18.2	15.1	21.3
	1994	13.0	3	130	21	15.5	3.4	16.2	11.9	17.6	11.9	23.2
	1995	12.8	3	123	22	16.2	3.5	17.9	13.2	17.4	12.0	22.8
	1996	12.3	3	134	27	17.1	3.6	20.1	12.8	19.5	14.4	24.5
Model B	All Years	12.7	3	384	68	61.5	5.8	17.7	16.0	14.1	11.7	16.4
	1994	12.9	3	130	21	20.4	3.3	16.2	15.7	13.3	9.2	17.4
	1995	12.8	3	120	20	19.2	3.4	16.7	16.0	13.3	8.9	17.7
	1996	12.4	3	134	27	21.8	3.4	20.1	16.3	15.3	11.5	19.1

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Imperial County: Calexico Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	1	1	0.4	0.5	100.0	38.4	33.1	1.5	64.7	0.384
	1994	13.0	1	1	0.4	0.5	100.0	38.4	33.8	1.6	66.0	0.384
	1995	12.8	0									
	1996	12.3	0									
Model B	All Years	12.7	1	1	0.3	0.5	100.0	29.2	43.6	4.8	82.4	0.292
	1994	12.9	1	1	0.3	0.5	100.0	29.2	44.3	4.8	83.8	0.292
	1995	12.8	0									
	1996	12.4	0									

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Imperial County: El Centro Regional Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	247	47	30.0	4.8	19.0	12.2	19.9	15.9	23.9	0.001
	1994	13.0	83	16	10.1	2.8	19.3	12.2	20.6	13.5	27.6	0.031
	1995	12.8	82	15	10.2	2.8	18.3	12.4	18.9	12.1	25.7	0.063
	1996	12.3	82	16	9.8	2.7	19.5	11.9	20.2	13.4	27.0	0.023
Model B	All Years	12.7	244	45	40.0	4.7	18.4	16.4	14.3	11.4	17.2	0.166
	1994	12.9	83	16	14.4	2.7	19.3	17.4	14.3	9.6	19.0	0.337
	1995	12.8	79	13	12.8	2.8	16.5	16.3	13.0	7.5	18.4	0.539
	1996	12.4	82	16	12.7	2.6	19.5	15.5	15.6	10.5	20.6	0.145
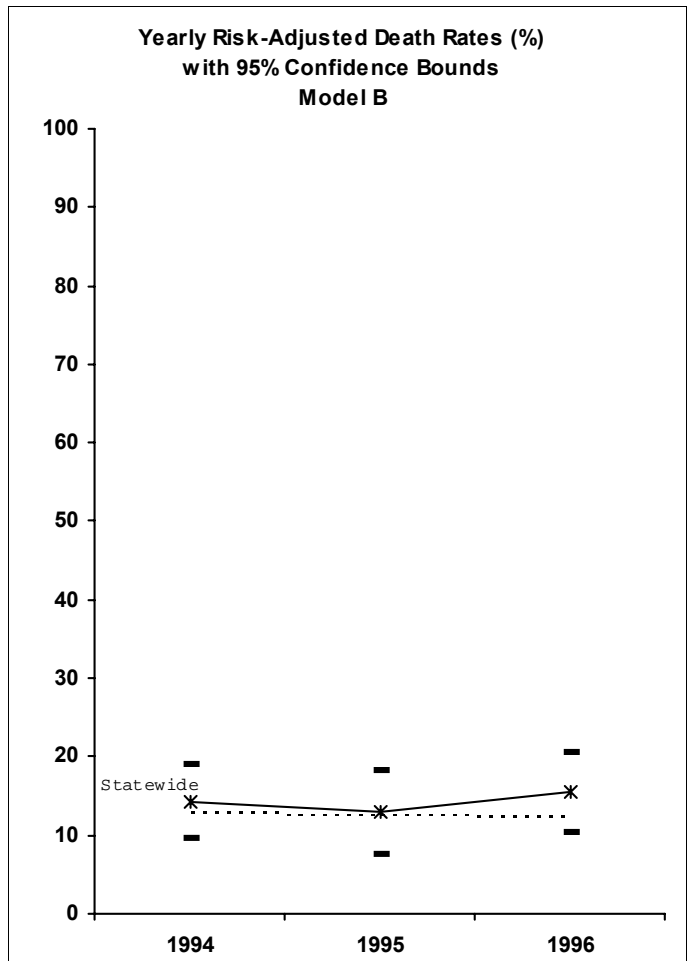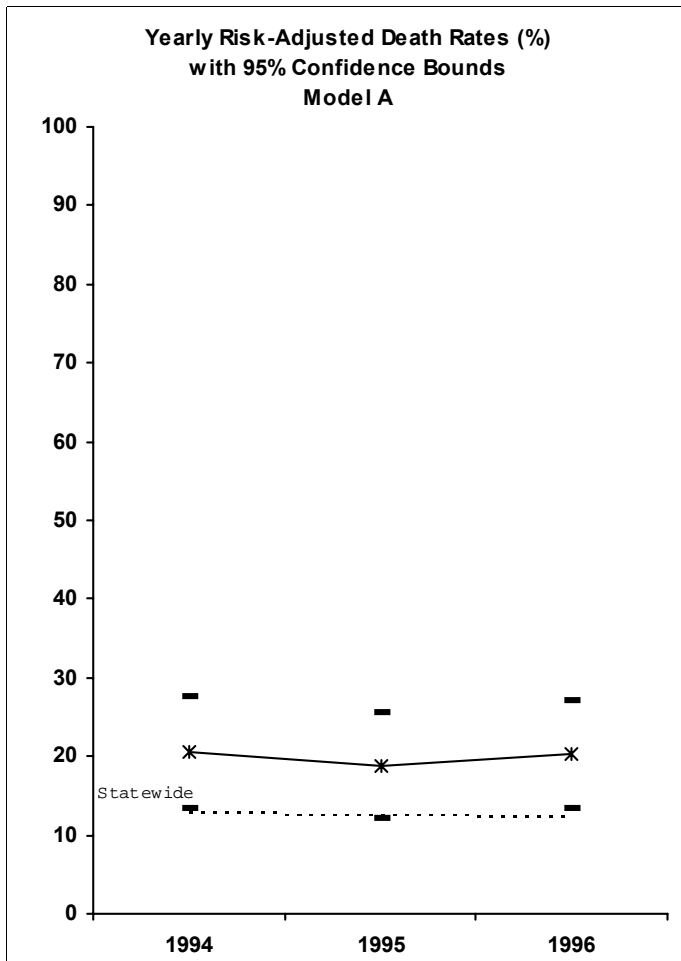
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
Imperial County: Pioneers Memorial Hospital										Lower	Upper	
Model A	All Years	12.7	139	22	18.4	3.7	15.8	13.2	15.2	10.2	20.2	0.197
	1994	13.0	46	4	5.0	2.0	8.7	10.9	10.4	0.4	20.4	0.419
	1995	12.8	41	7	6.0	2.1	17.1	14.7	14.8	6.1	23.6	0.397
	1996	12.3	52	11	7.4	2.3	21.2	14.1	18.5	10.9	26.0	0.088
Model B	All Years	12.7	139	22	21.2	3.4	15.8	15.3	13.2	9.1	17.2	0.459
	1994	12.9	46	4	5.7	1.8	8.7	12.3	9.1	0.9	17.3	0.269
	1995	12.8	41	7	6.4	1.9	17.1	15.6	14.0	6.5	21.5	0.467
	1996	12.4	52	11	9.1	2.2	21.2	17.6	14.9	9.1	20.7	0.261

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

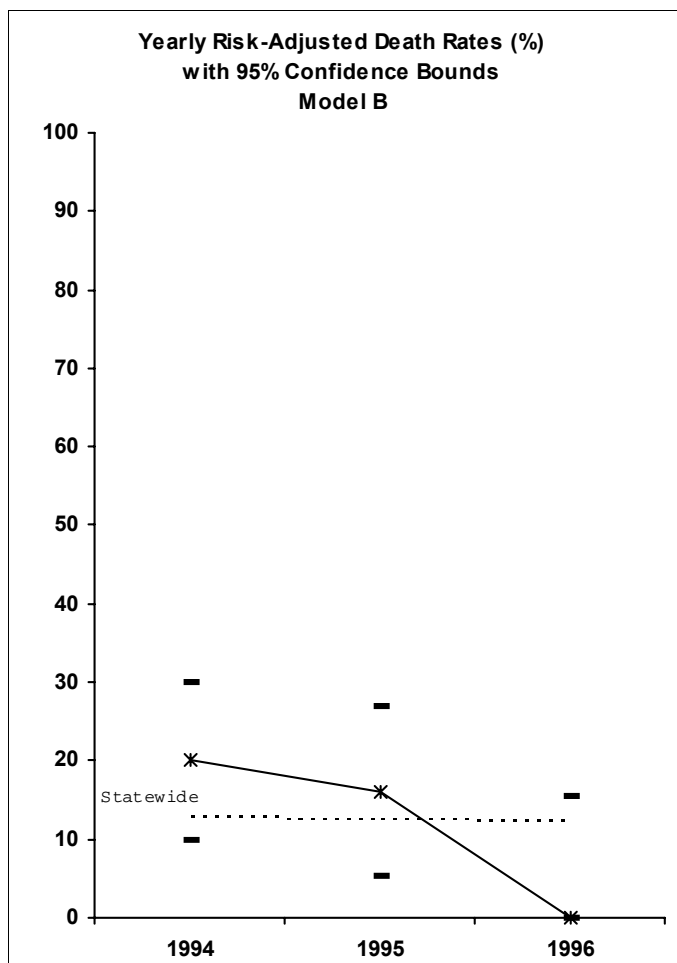|		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	2	122	12	14.8	3.4	9.8	12.1	10.3	4.6	16.0
	1994	13.0	2	50	7	6.7	2.2	14.0	13.4	13.5	5.0	22.1
	1995	12.8	2	43	5	5.0	2.0	11.6	11.5	12.9	2.9	23.0
	1996	12.3	2	29	0	3.1	1.6	0.0	10.8	0.0	0.0	12.1
Model B	All Years	12.7	2	122	12	11.5	3.0	9.8	9.5	13.2	6.9	19.6
	1994	12.9	2	50	7	5.5	2.0	14.0	10.9	16.5	7.3	25.8
	1995	12.8	2	43	5	4.0	1.7	11.6	9.2	16.1	5.2	27.0
	1996	12.4	2	29	0	2.1	1.3	0.0	7.2	0.0	0.0	15.5

Inyo County Summary

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B
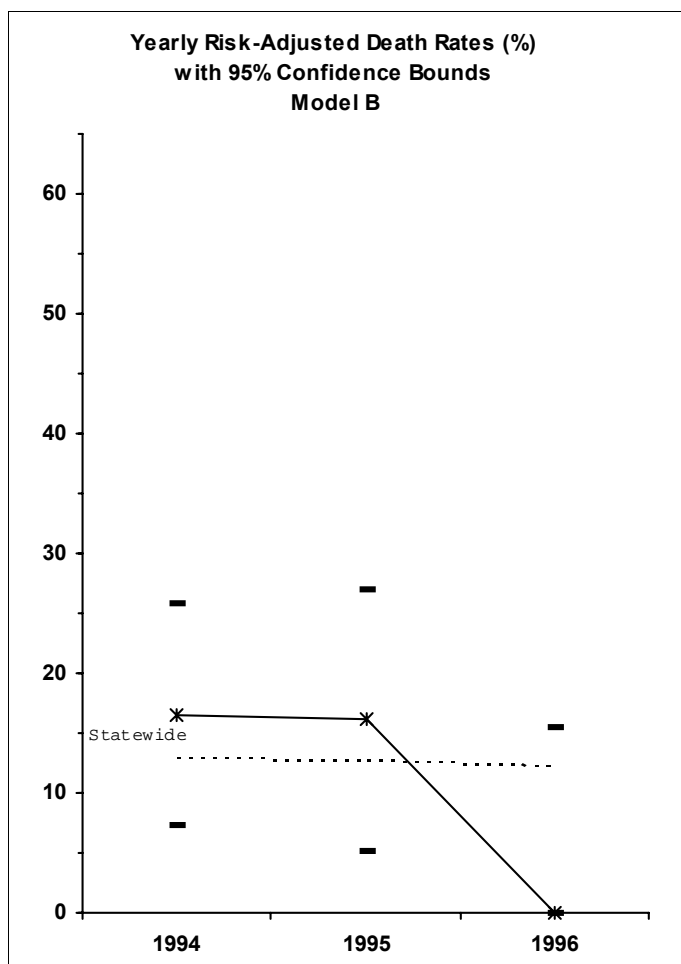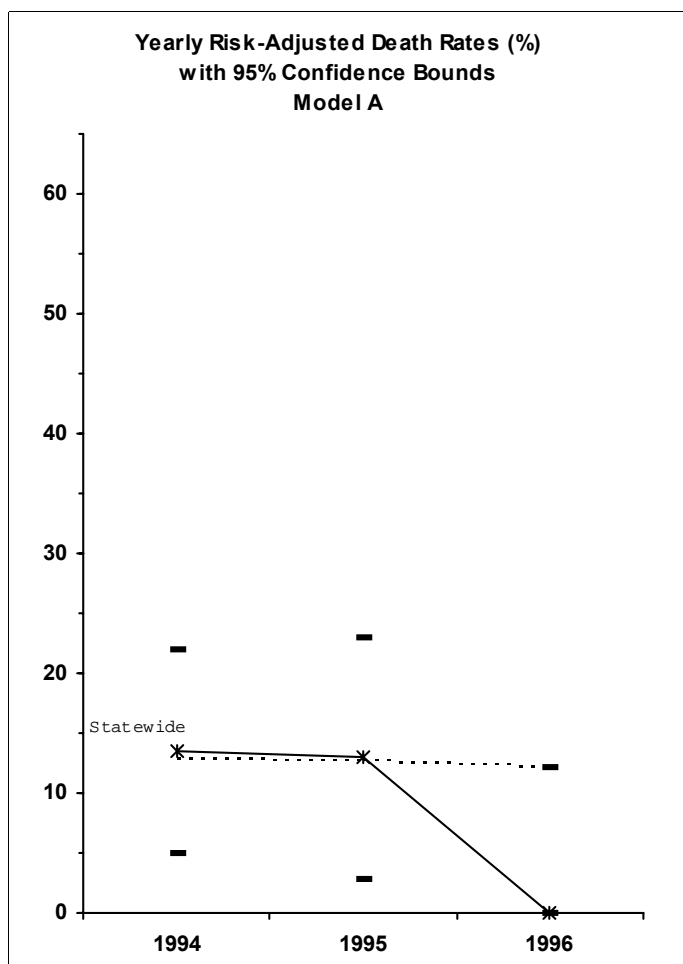
Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Inyo County: Northern Inyo Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	117	12	13.7	3.3	10.3	11.7	11.1	5.2	17.1	0.368
	1994	13.0	45	7	5.6	2.1	15.6	12.4	16.2	6.8	25.6	0.318
	1995	12.8	43	5	5.0	2.0	11.6	11.5	12.9	2.9	23.0	0.570
	1996	12.3	29	0	3.1	1.6	0.0	10.8	0.0	0.0	12.1	0.029
Model B	All Years	12.7	117	12	10.6	2.8	10.3	9.0	14.4	7.7	21.1	0.361
	1994	12.9	45	7	4.5	1.8	15.6	10.0	20.0	9.9	30.2	0.136
	1995	12.8	43	5	4.0	1.7	11.6	9.2	16.1	5.2	27.0	0.360
	1996	12.4	29	0	2.1	1.3	0.0	7.2	0.0	0.0	15.5	0.104
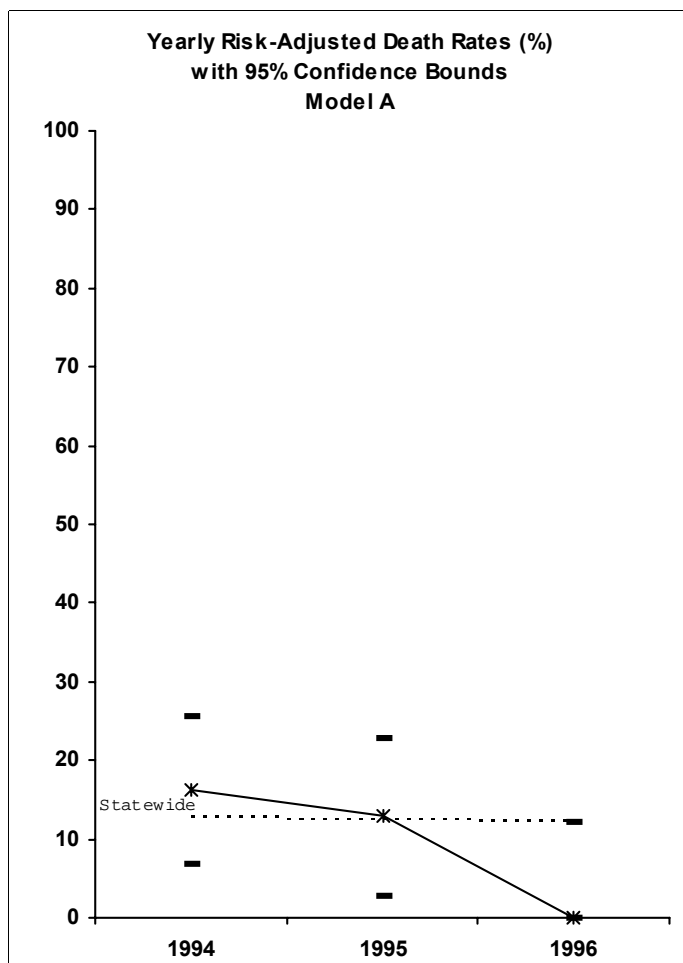
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Inyo County: Southern Inyo Hospital												
		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	5	0	1.1	0.9	0.0	22.1	0.0	0.0	20.0	0.270
	1994	13.0	5	0	1.1	0.9	0.0	22.1	0.0	0.0	20.4	0.270
	1995	12.8	0									
	1996	12.3	0									
Model B	All Years	12.7	5	0	0.9	0.8	0.0	19.0	0.0	0.0	21.7	0.327
	1994	12.9	5	0	0.9	0.8	0.0	19.0	0.0	0.0	22.1	0.327
	1995	12.8	0									
	1996	12.4	0									

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

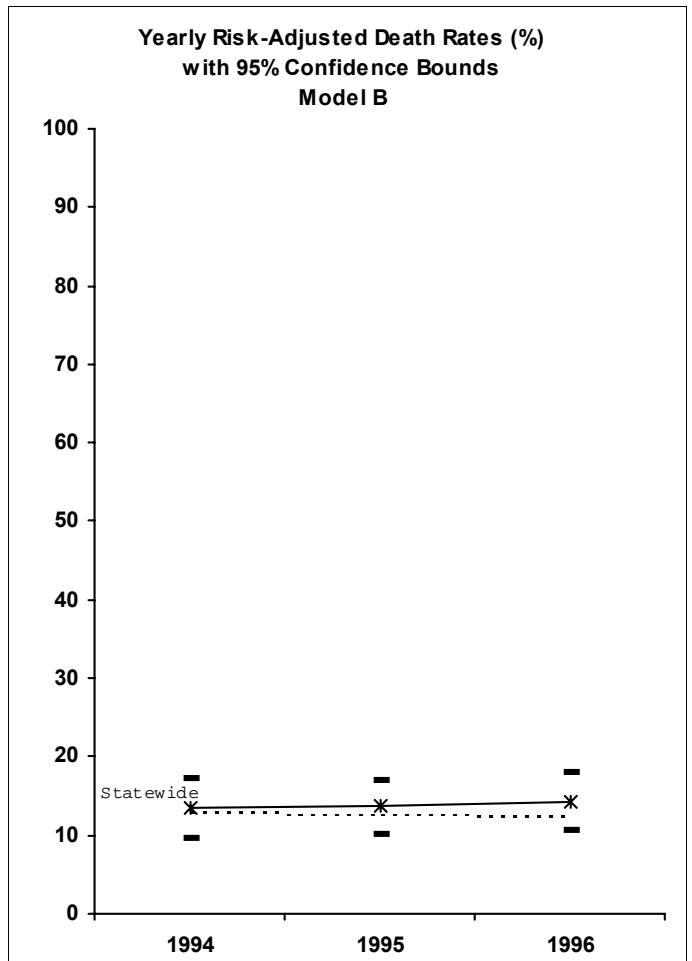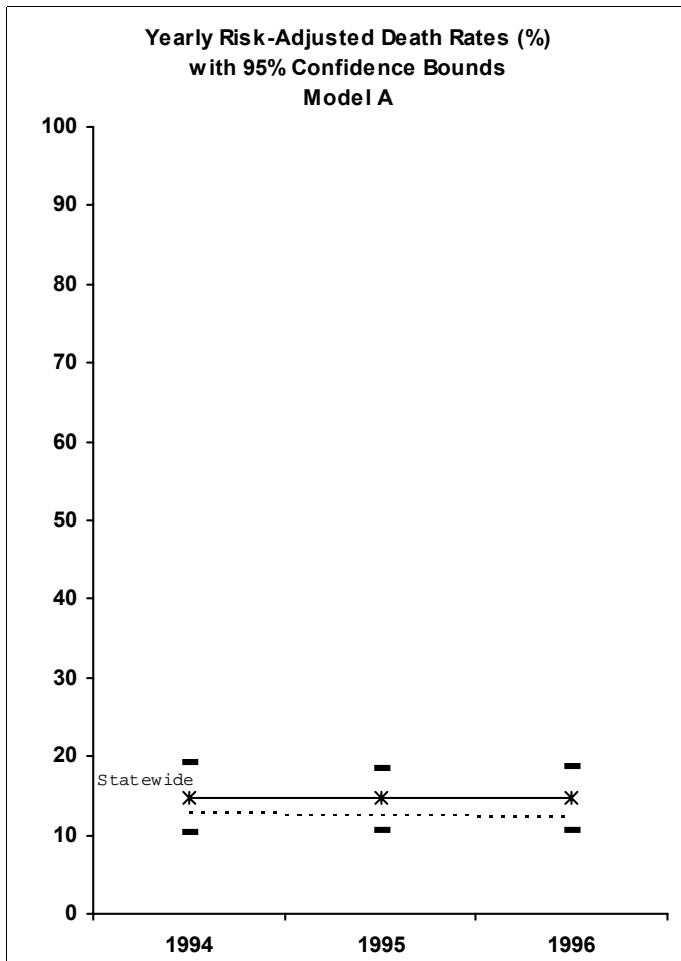|		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	9	2,342	305	281.2	14.8	13.0	12.0	13.8	12.5	15.1
	1994	13.0	9	739	98	93.5	8.4	13.3	12.7	13.6	11.3	15.9
	1995	12.8	9	820	103	98.1	8.8	12.6	12.0	13.4	11.2	15.7
	1996	12.3	9	783	104	89.6	8.4	13.3	11.4	14.3	12.1	16.6
Model B	All Years	12.7	9	2,329	304	283.5	13.6	13.1	12.2	13.6	12.4	14.8
	1994	12.9	9	731	97	97.1	7.9	13.3	13.3	12.9	10.9	15.0
	1995	12.8	9	818	103	98.3	8.0	12.6	12.0	13.4	11.4	15.5
	1996	12.4	9	780	104	88.1	7.7	13.3	11.3	14.6	12.5	16.7
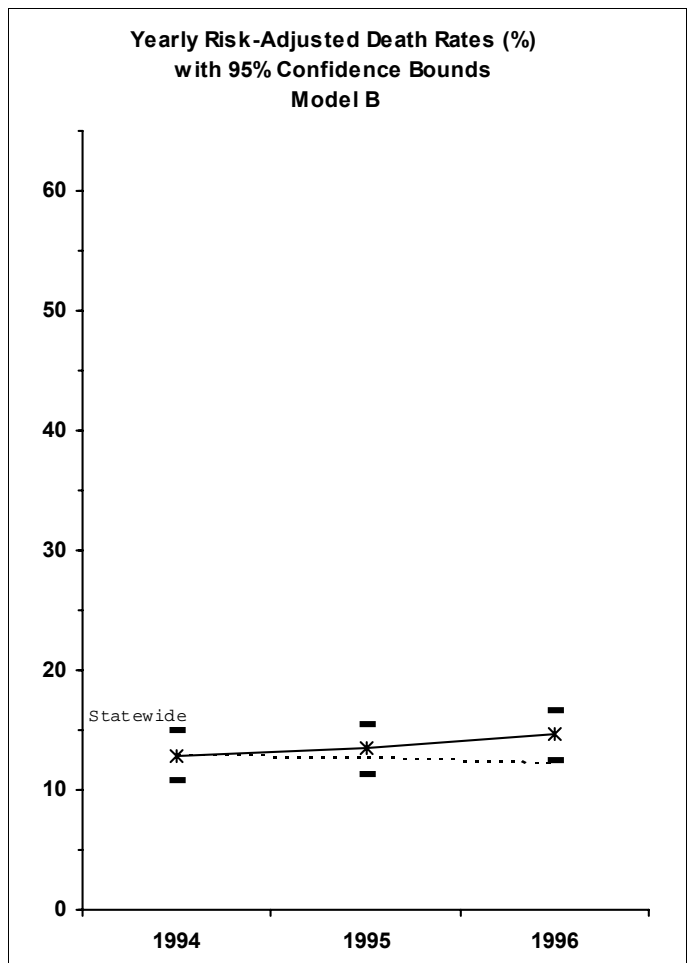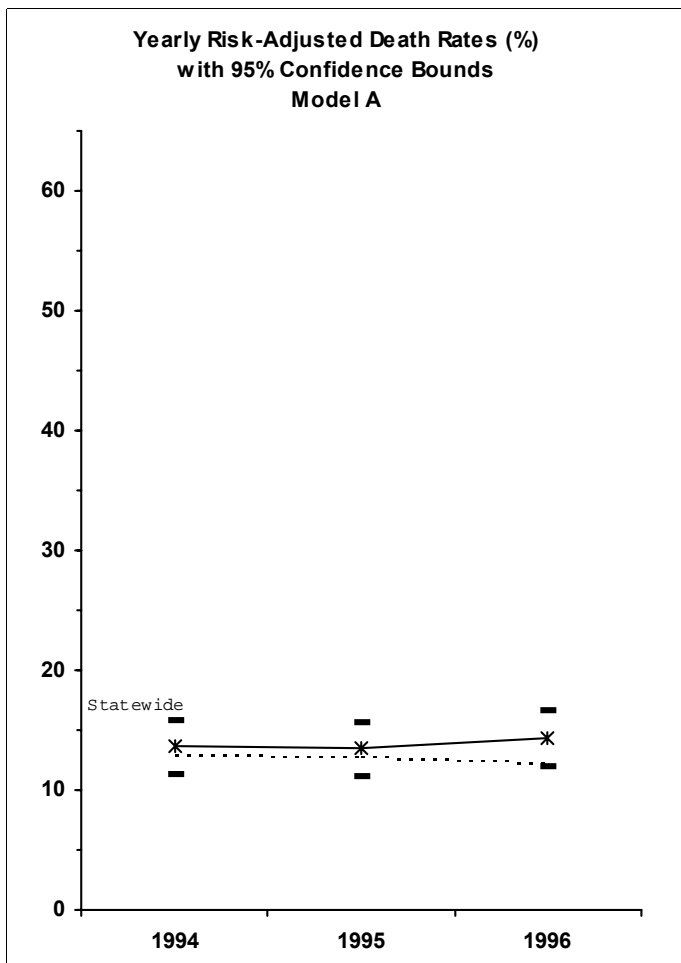
Kern County Summary

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Kern County: Bakersfield Memorial Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	846	101	87.2	8.4	11.9	10.3	14.7	12.3	17.1	0.060
	1994	13.0	248	29	25.4	4.5	11.7	10.2	14.8	10.3	19.4	0.240
	1995	12.8	323	39	34.2	5.3	12.1	10.6	14.6	10.7	18.5	0.203
	1996	12.3	275	33	27.7	4.7	12.0	10.1	14.7	10.6	18.9	0.156
Model B	All Years	12.7	846	101	92.9	7.9	11.9	11.0	13.8	11.7	15.9	0.166
	1994	12.9	248	29	27.9	4.3	11.7	11.2	13.5	9.6	17.4	0.433
	1995	12.8	323	39	36.5	4.9	12.1	11.3	13.7	10.3	17.1	0.338
	1996	12.4	275	33	28.5	4.4	12.0	10.4	14.3	10.6	18.0	0.179

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Kern County: Delano Regional Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	153	24	24.0	4.2	15.7	15.7	12.7	8.3	17.1	0.534
	1994	13.0	52	9	8.1	2.5	17.3	15.5	14.5	6.7	22.2	0.417
	1995	12.8	61	6	9.6	2.7	9.8	15.8	8.0	1.1	14.9	0.114
	1996	12.3	40	9	6.2	2.2	22.5	15.6	17.8	9.3	26.3	0.150
Model B	All Years	12.7	152	24	23.7	3.9	15.8	15.6	12.9	8.8	17.0	0.508
	1994	12.9	52	9	10.1	2.4	17.3	19.4	11.5	5.6	17.5	0.411
	1995	12.8	61	6	8.2	2.4	9.8	13.5	9.3	2.2	16.5	0.235
	1996	12.4	39	9	5.3	2.0	23.1	13.7	20.9	12.0	29.8	0.059
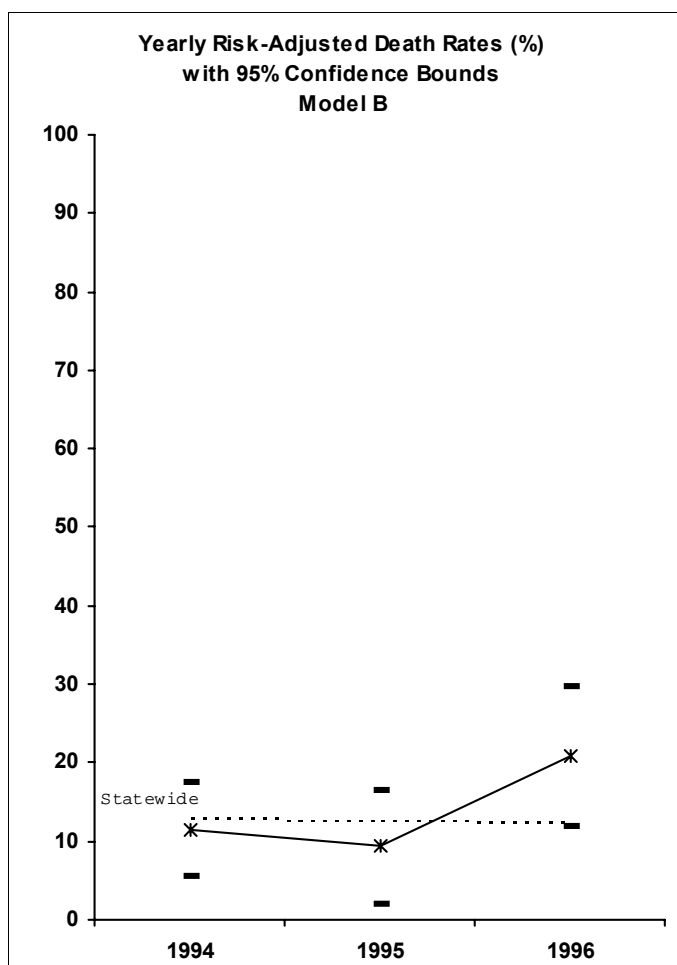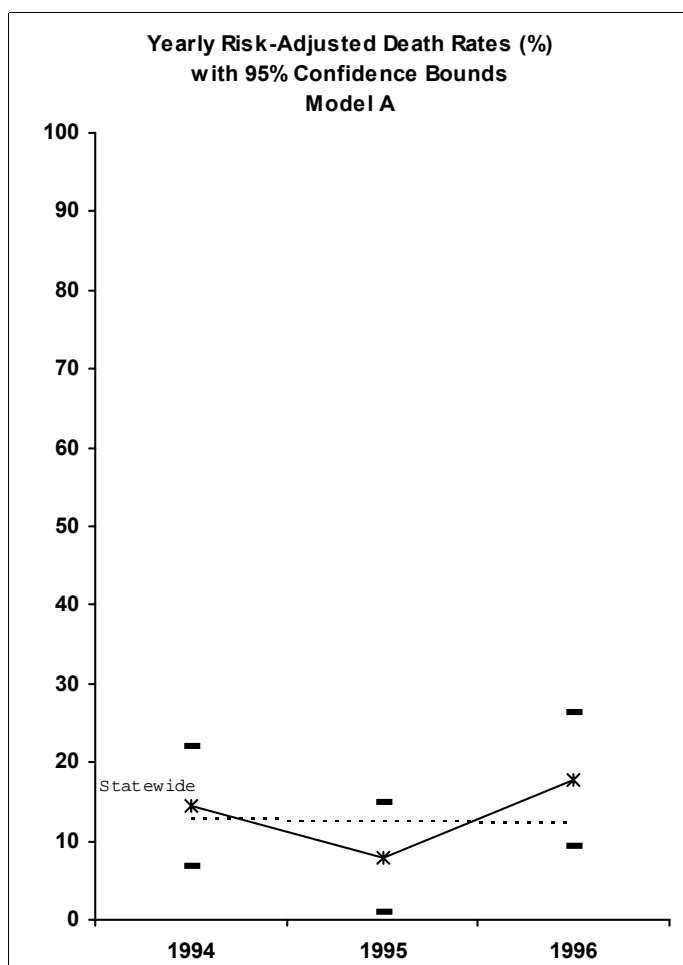
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Kern County: Good Samaritan Hospital-Bakersfield

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	11	0	1.8	1.1	0.0	16.0	0.0	0.0	16.1	0.127
	1994	13.0	5	0	0.6	0.7	0.0	12.2	0.0	0.0	29.9	0.514
	1995	12.8	4	0	0.5	0.6	0.0	11.3	0.0	0.0	32.8	0.597
	1996	12.3	2	0	0.7	0.7	0.0	34.7	0.0	0.0	22.9	0.415
Model B	All Years	12.7	11	0	1.0	0.9	0.0	9.4	0.0	0.0	22.2	0.317
	1994	12.9	5	0	0.3	0.5	0.0	6.3	0.0	0.0	43.0	0.718
	1995	12.8	4	0	0.3	0.5	0.0	6.8	0.0	0.0	44.3	0.744
	1996	12.4	2	0	0.4	0.6	0.0	22.4	0.0	0.0	31.1	0.594
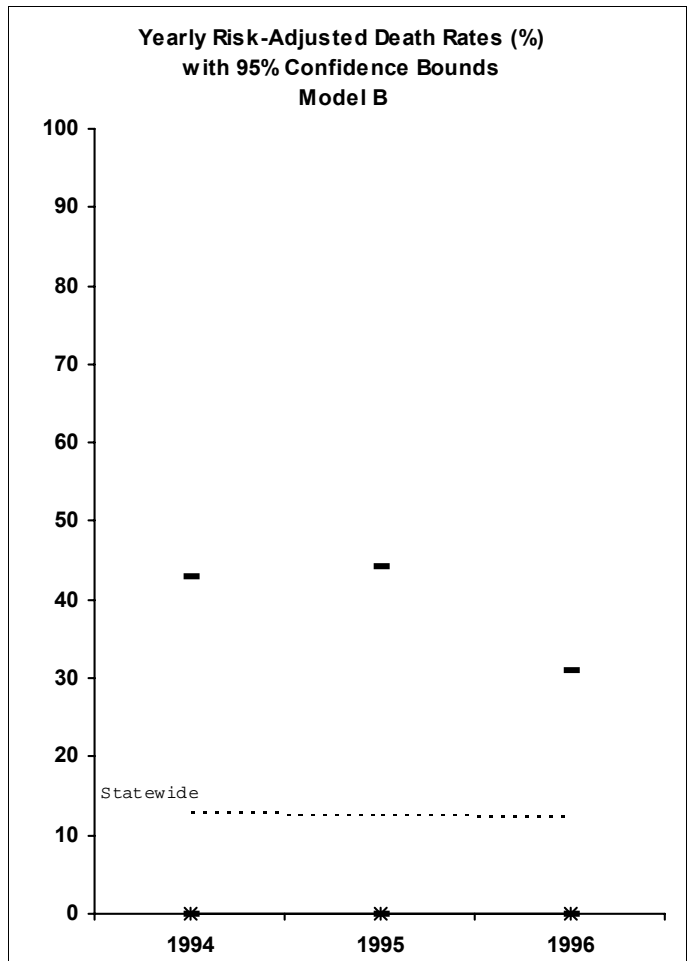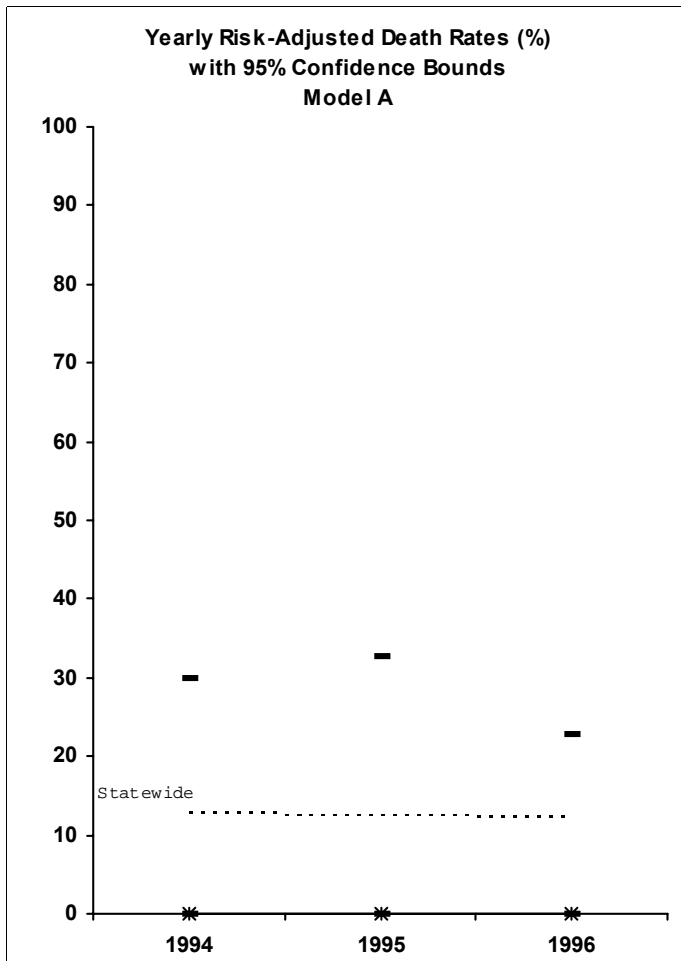
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Kern County: Kern Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	237	37	26.0	4.5	15.6	11.0	18.1	13.7	22.4	0.013
	1994	13.0	55	9	5.9	2.1	16.4	10.8	19.7	10.5	28.9	0.118
	1995	12.8	97	12	11.5	3.0	12.4	11.8	13.4	6.9	19.9	0.484
	1996	12.3	85	16	8.6	2.6	18.8	10.2	22.9	15.5	30.2	0.007
Model B	All Years	12.7	235	37	24.0	4.1	15.7	10.2	19.6	15.4	23.8	0.002
	1994	12.9	55	9	5.2	1.9	16.4	9.4	22.6	13.3	31.8	0.043
	1995	12.8	95	12	10.5	2.7	12.6	11.0	14.7	8.2	21.2	0.341
	1996	12.4	85	16	8.3	2.4	18.8	9.8	23.7	16.8	30.6	0.003
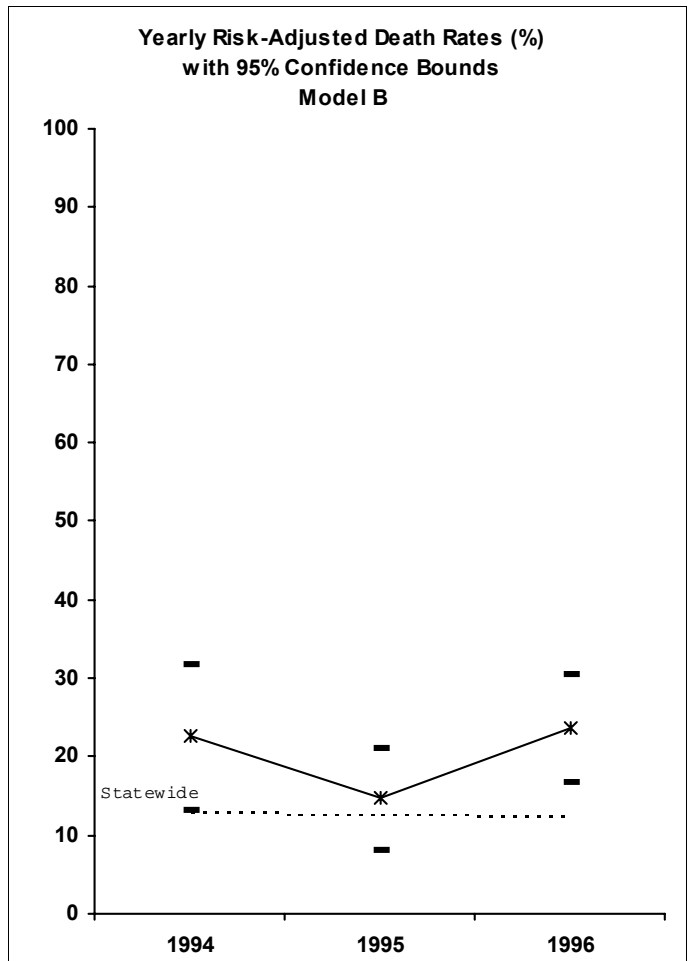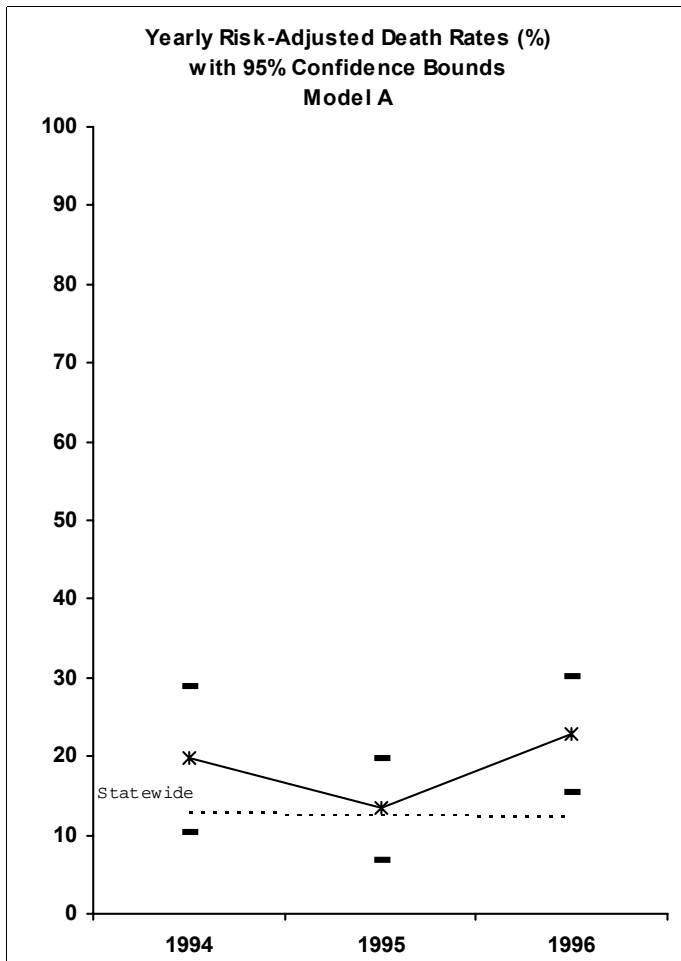
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Kern County: Kern Valley Hospital District

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	79	9	13.2	3.2	11.4	16.7	8.7	2.7	14.7	0.120
	1994	13.0	35	4	5.9	2.1	11.4	17.0	8.7	0.0	17.7	0.253
	1995	12.8	19	2	2.9	1.5	10.5	15.4	8.8	0.0	21.9	0.418
	1996	12.3	25	3	4.3	1.8	12.0	17.2	8.6	0.0	18.8	0.343
Model B	All Years	12.7	79	9	11.7	2.9	11.4	14.8	9.8	3.6	16.0	0.232
	1994	12.9	35	4	6.1	2.0	11.4	17.5	8.5	0.1	16.8	0.214
	1995	12.8	19	2	2.3	1.4	10.5	12.1	11.1	0.0	26.0	0.588
	1996	12.4	25	3	3.3	1.6	12.0	13.0	11.4	0.0	23.4	0.585
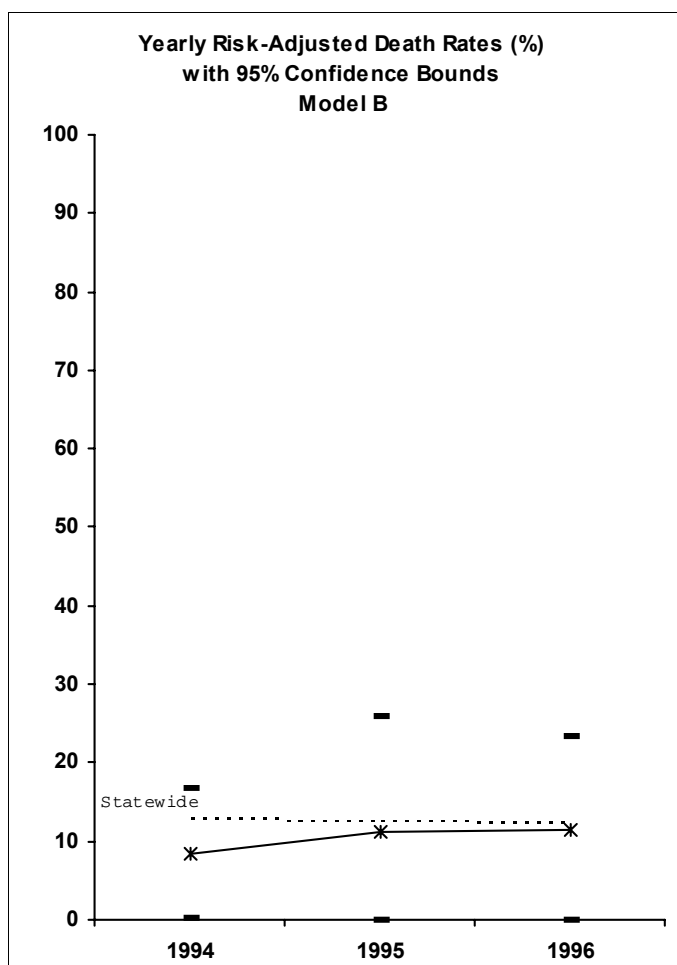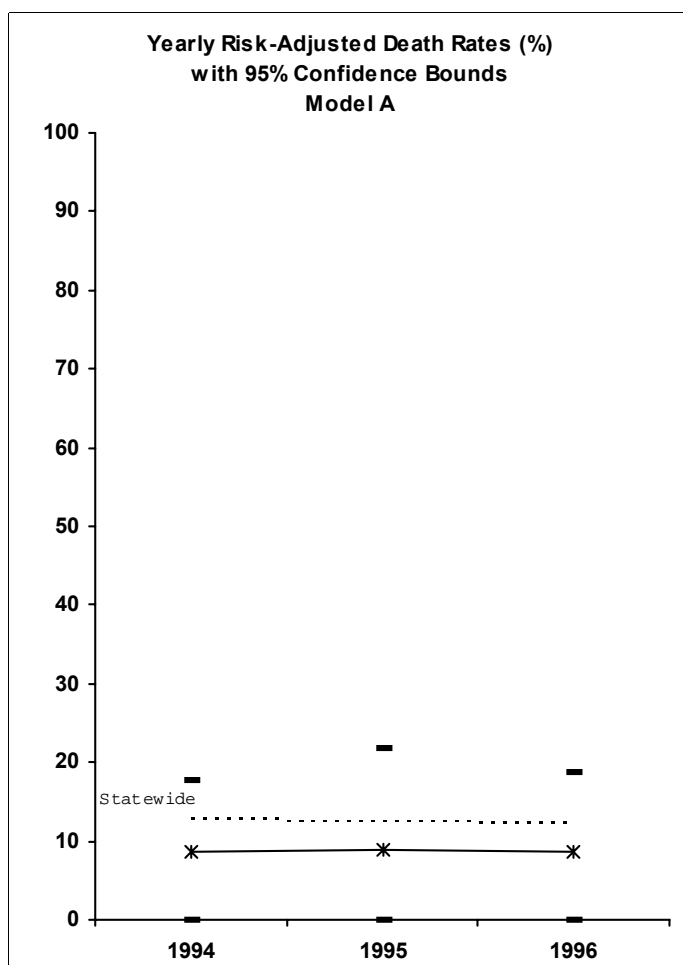
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Kern County: Mercy Hospital-Bakersfield

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	380	67	54.5	6.4	17.6	14.3	15.6	12.7	18.5	0.032
	1994	13.0	150	26	25.1	4.2	17.3	16.7	13.5	9.2	17.7	0.450
	1995	12.8	123	22	16.3	3.5	17.9	13.3	17.3	11.8	22.7	0.074
	1996	12.3	107	19	13.1	3.2	17.8	12.3	17.9	12.0	23.8	0.050
Model B	All Years	12.7	371	66	55.2	5.9	17.8	14.9	15.2	12.5	17.8	0.042
	1994	12.9	142	25	23.1	3.8	17.6	16.3	14.0	9.8	18.1	0.355
	1995	12.8	123	22	17.0	3.2	17.9	13.8	16.6	11.8	21.4	0.084
	1996	12.4	106	19	15.1	3.1	17.9	14.2	15.6	10.6	20.5	0.136
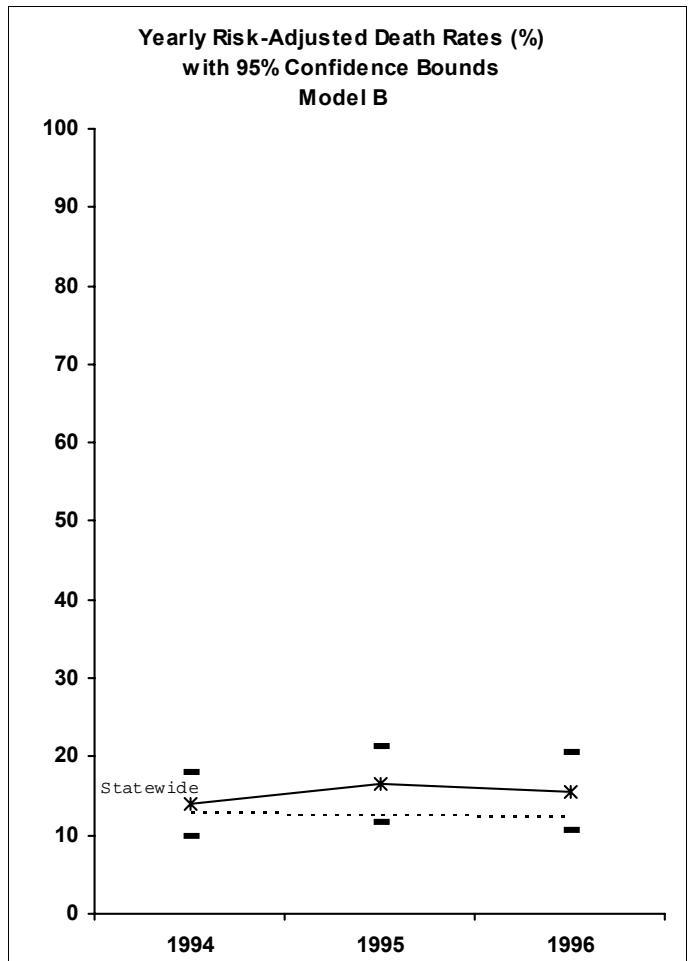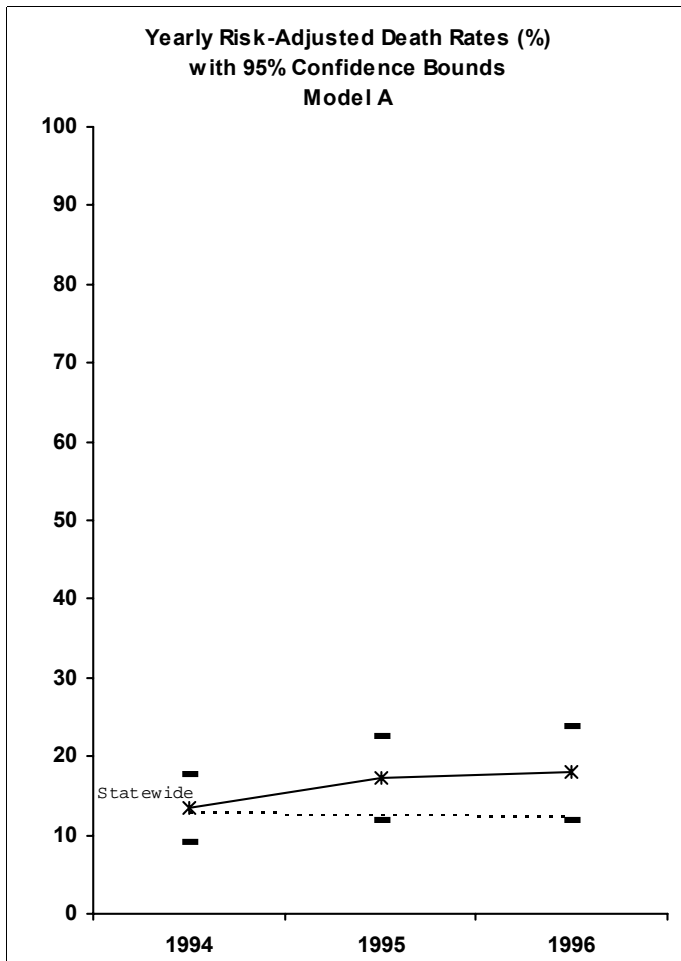
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Kern County: Ridgecrest Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	97	14	13.3	3.1	14.4	13.7	13.4	7.5	19.2	0.466
	1994	13.0	27	3	3.9	1.7	11.1	14.3	10.1	0.0	21.1	0.435
	1995	12.8	31	8	5.1	1.9	25.8	16.4	20.1	10.8	29.5	0.104
	1996	12.3	39	3	4.4	1.9	7.7	11.2	8.4	0.0	18.7	0.333
Model B	All Years	12.7	97	14	12.3	2.8	14.4	12.7	14.5	8.8	20.1	0.324
	1994	12.9	27	3	4.0	1.5	11.1	14.9	9.6	0.5	18.8	0.370
	1995	12.8	31	8	4.6	1.6	25.8	14.8	22.3	13.3	31.2	0.043
	1996	12.4	39	3	3.7	1.7	7.7	9.4	10.1	0.0	21.3	0.486
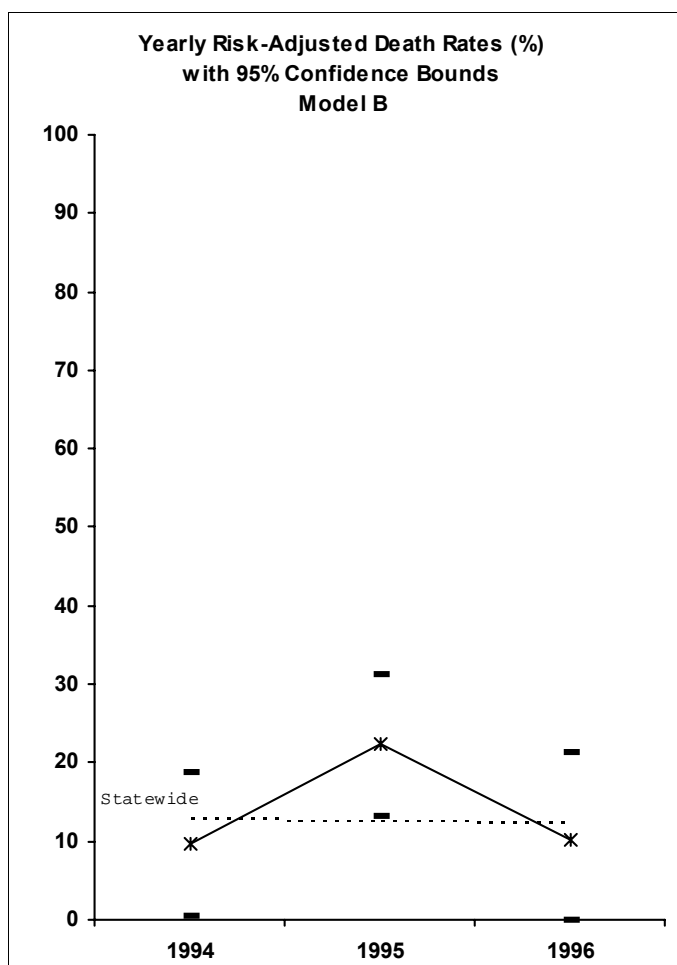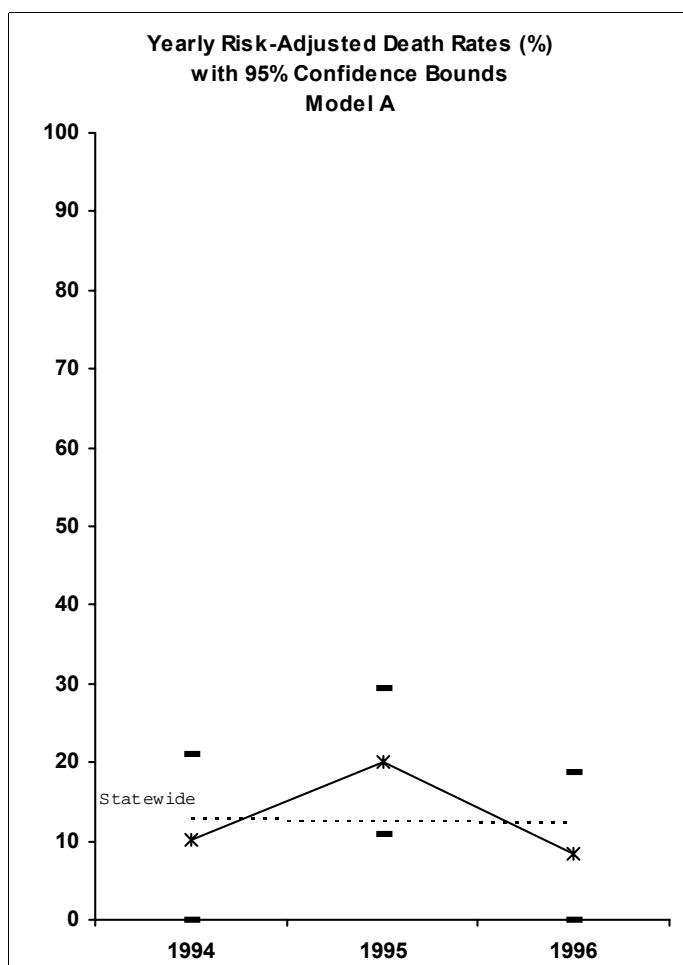
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Kern County: San Joaquin Community Hospital											
		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	531	50	59.6	6.8	9.4	11.2	10.7	7.8	13.5	0.091
	1994	13.0	162	17	18.0	3.8	10.5	11.1	12.3	6.9	17.6	0.459
	1995	12.8	160	12	17.1	3.7	7.5	10.7	9.0	3.5	14.4	0.105
	1996	12.3	209	21	24.5	4.3	10.0	11.7	10.6	6.3	14.9	0.250
Model B	All Years	12.7	530	50	61.0	6.4	9.4	11.5	10.4	7.8	13.0	0.048
	1994	12.9	162	17	19.5	3.6	10.5	12.0	11.3	6.6	16.0	0.294
	1995	12.8	160	12	18.0	3.4	7.5	11.2	8.5	3.7	13.3	0.050
	1996	12.4	208	21	23.5	4.0	10.1	11.3	11.1	7.0	15.2	0.317
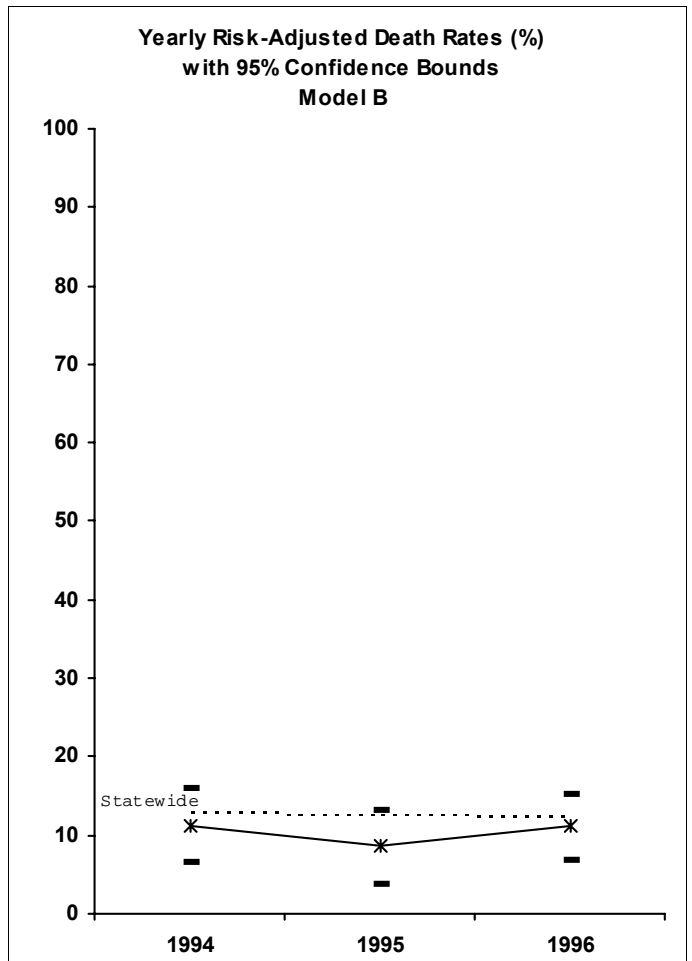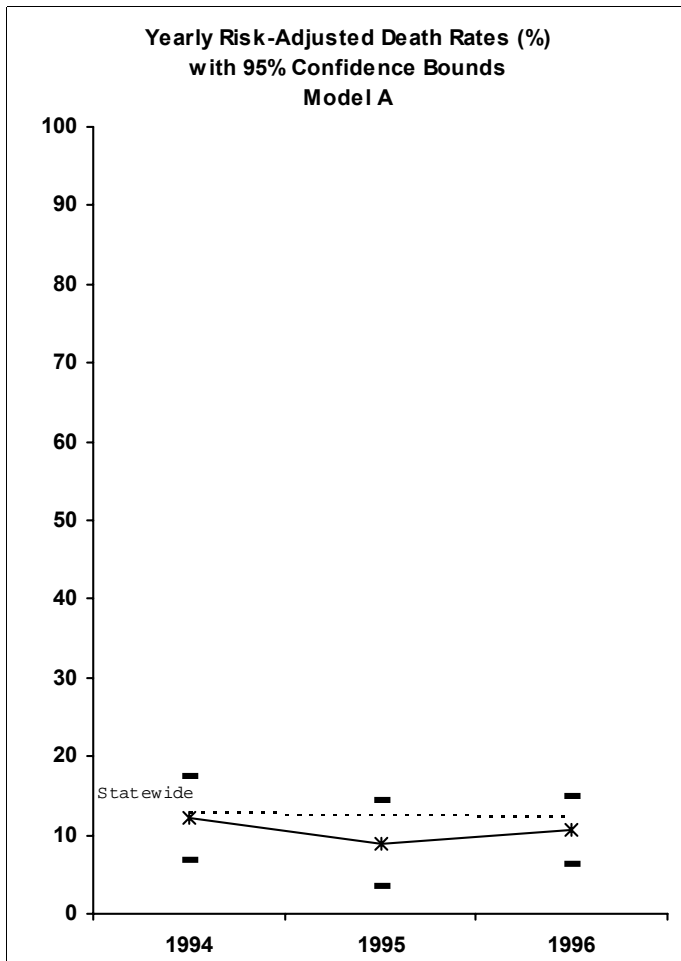
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Kern County: West Side District Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	8	3	1.7	1.0	37.5	20.8	22.9	7.5	38.3	0.200
	1994	13.0	5	1	0.7	0.7	20.0	14.1	18.3	0.0	44.6	0.559
	1995	12.8	2	2	0.9	0.7	100.0	46.6	27.5	8.5	46.4	0.217
	1996	12.3	1	0	0.0	0.2	0.0	2.6	0.0	0.0	100.0	0.974
Model B	All Years	12.7	8	3	1.8	0.9	37.5	22.6	21.0	8.2	33.9	0.221
	1994	12.9	5	1	0.9	0.6	20.0	17.4	14.8	0.0	33.3	0.735
	1995	12.8	2	2	0.9	0.7	100.0	46.4	27.6	9.2	46.0	0.197
	1996	12.4	1	0	0.0	0.1	0.0	1.2	0.0	0.0	100.0	0.988

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B
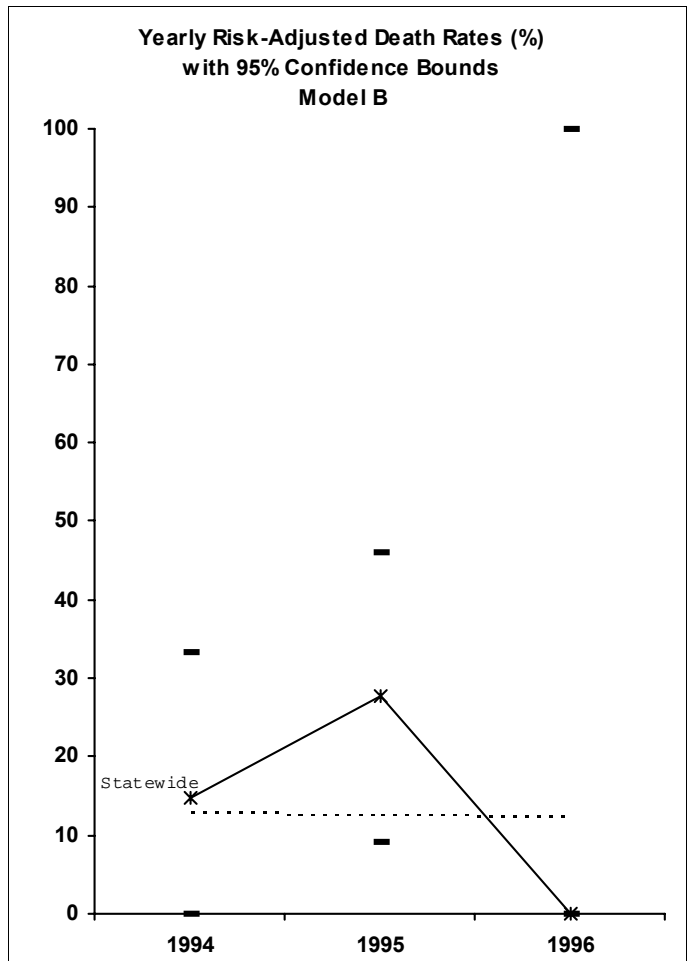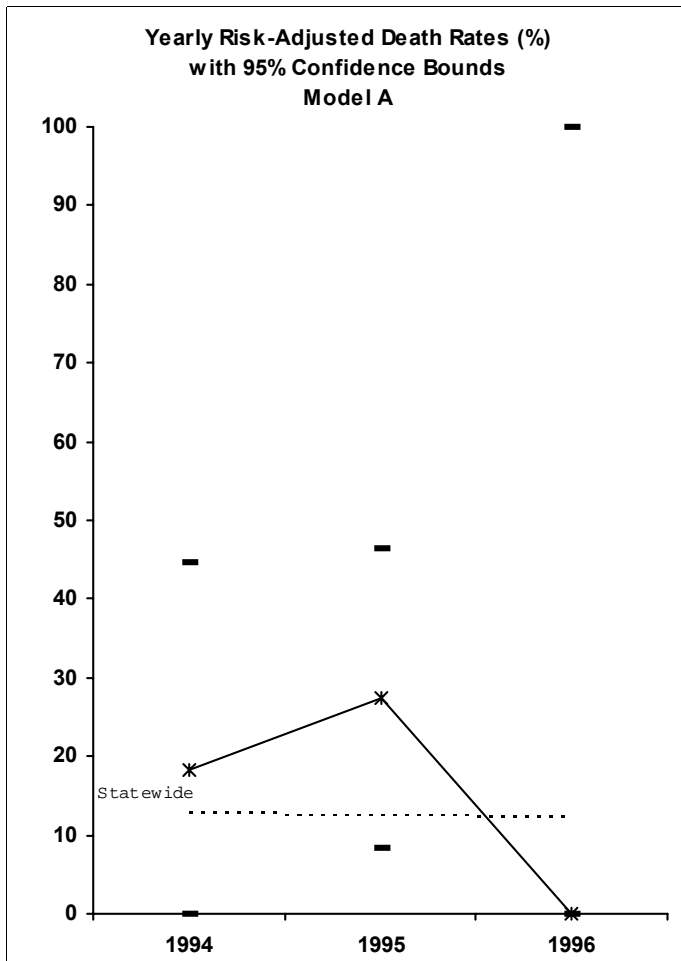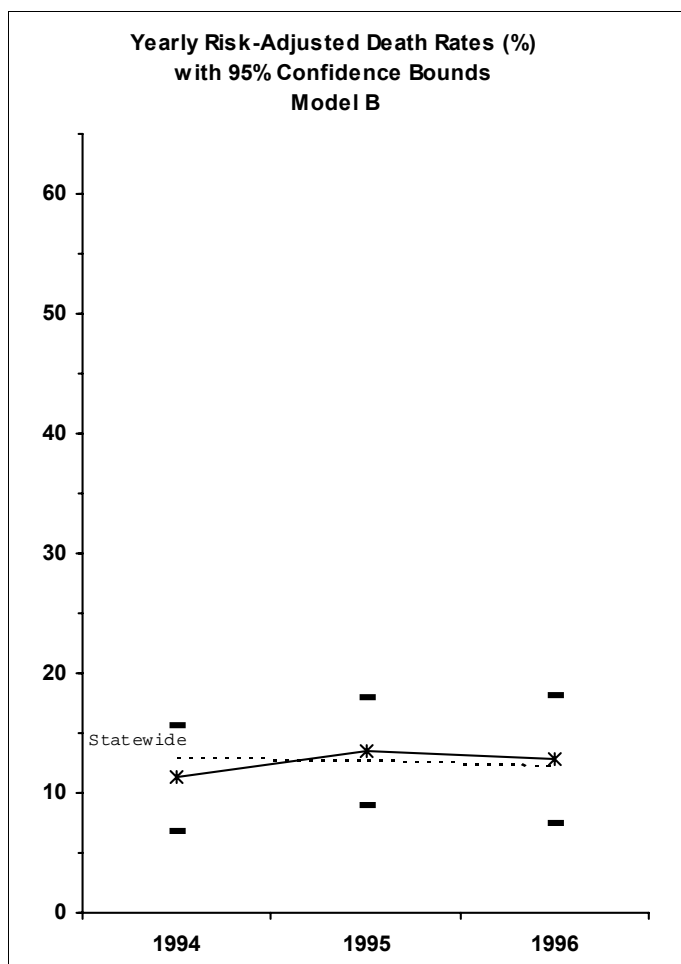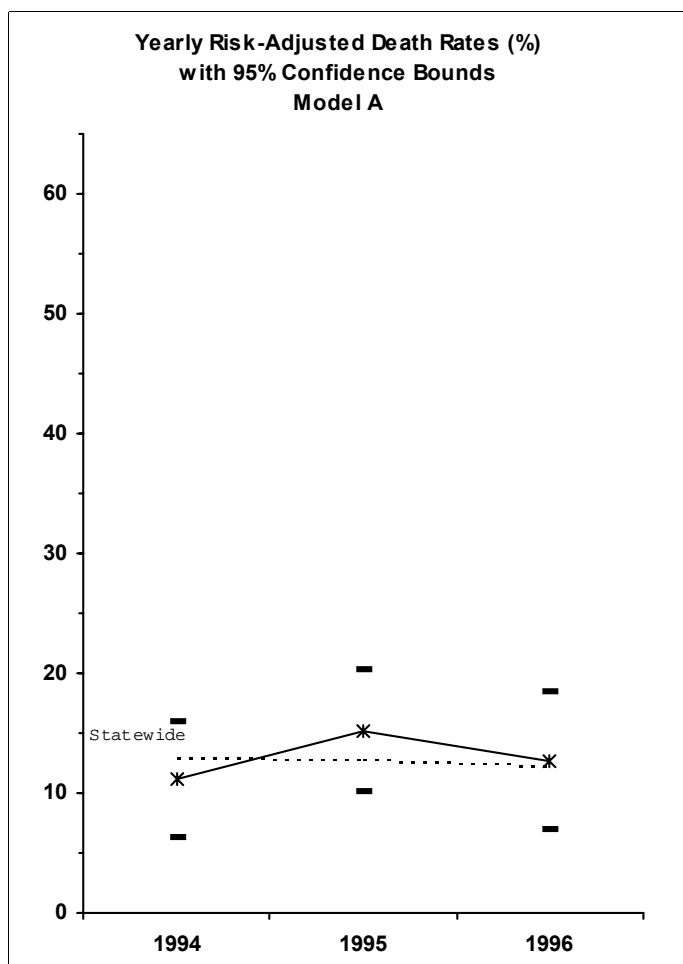
‡ Hospital sent comment letter

Office of Statewide Health Planning and Development
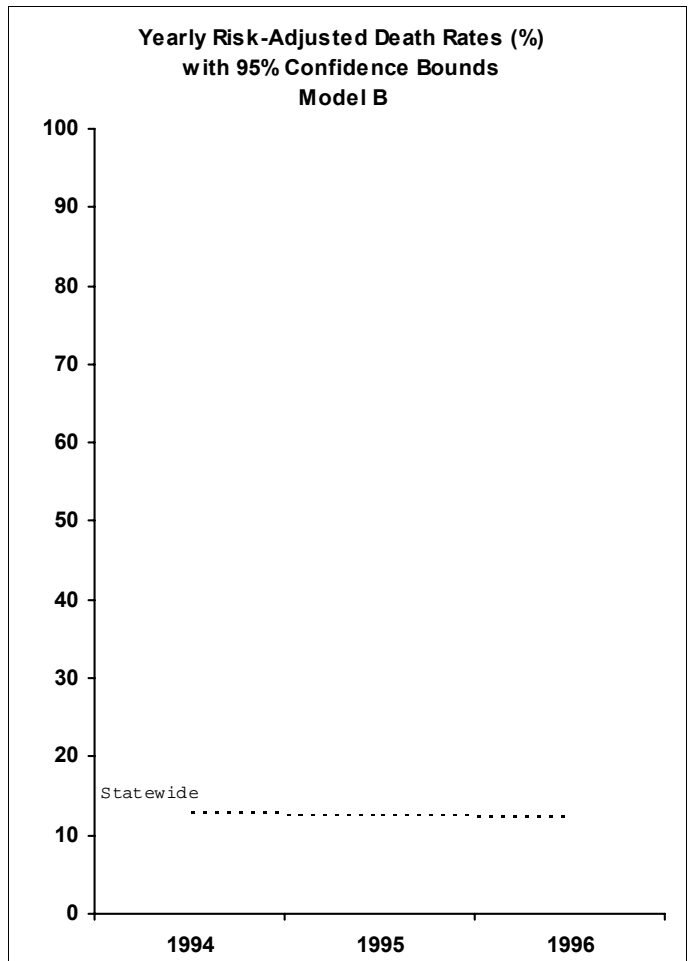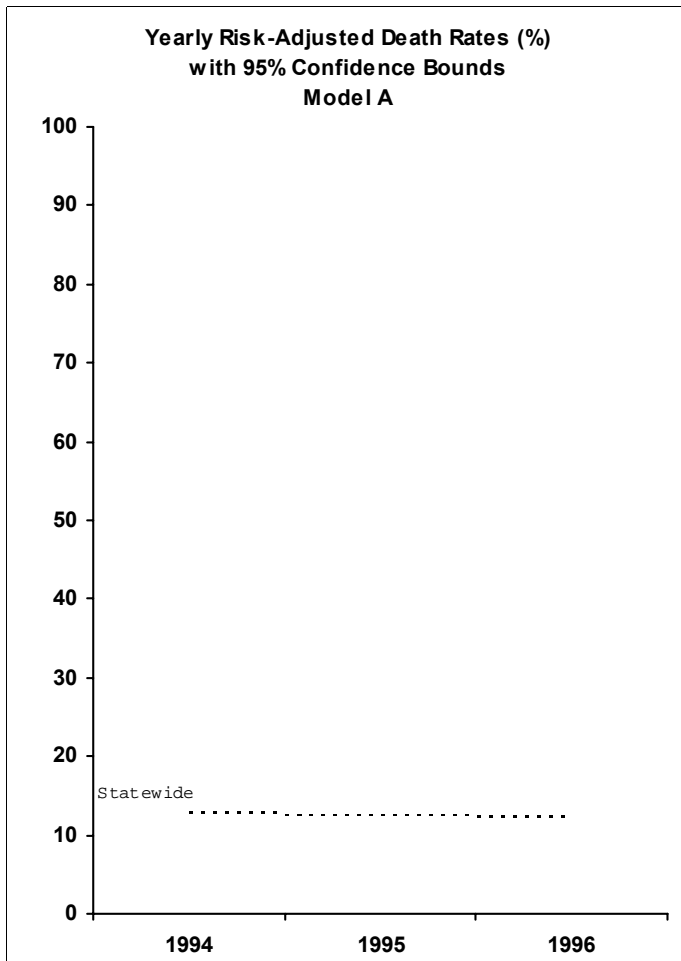California Hospital Outcomes Project

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Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Kings County Summary

		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	2	376	53	51.9	6.2	14.1	13.8	13.0	10.0	16.0
	1994	13.0	2	135	17	19.8	3.8	12.6	14.7	11.1	6.3	16.0
	1995	12.8	2	128	22	18.5	3.7	17.2	14.5	15.2	10.1	20.3
	1996	12.3	2	113	14	13.6	3.2	12.4	12.0	12.7	6.9	18.5
Model B	All Years	12.7	2	365	50	50.8	5.5	13.7	13.9	12.5	9.8	15.2
	1994	12.9	2	130	16	18.3	3.2	12.3	14.1	11.3	6.9	15.7
	1995	12.8	2	122	20	19.0	3.4	16.4	15.6	13.5	9.0	18.0
	1996	12.4	2	113	14	13.5	2.9	12.4	11.9	12.8	7.5	18.1

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Kings County: Central Valley General Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	Excluded										
	1994											
	1995											
	1996											
Model B	All Years	Excluded										
	1994											
	1995											
	1996											

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B
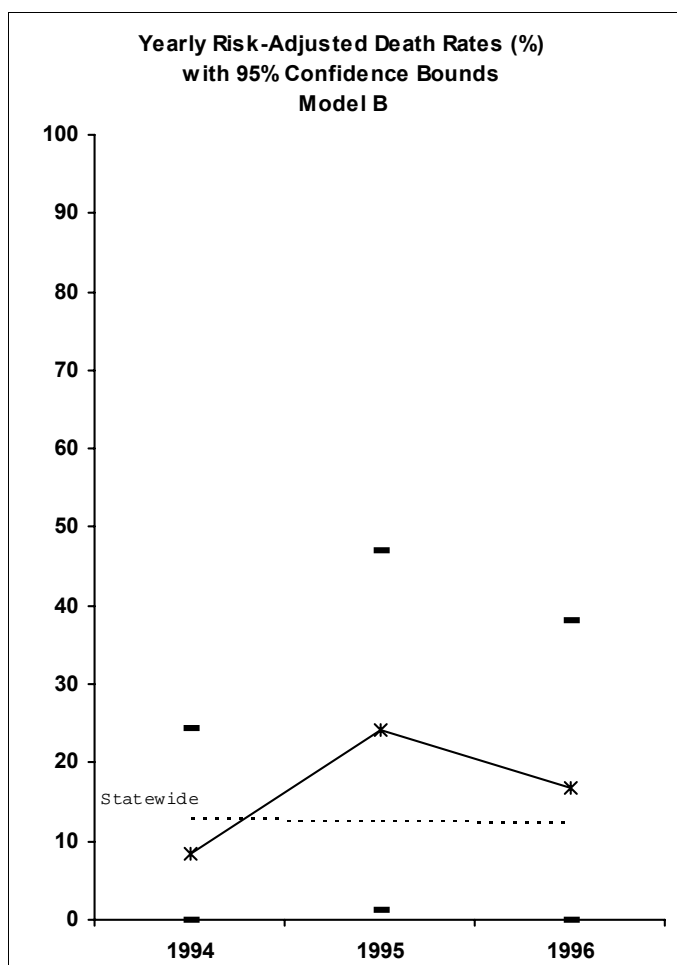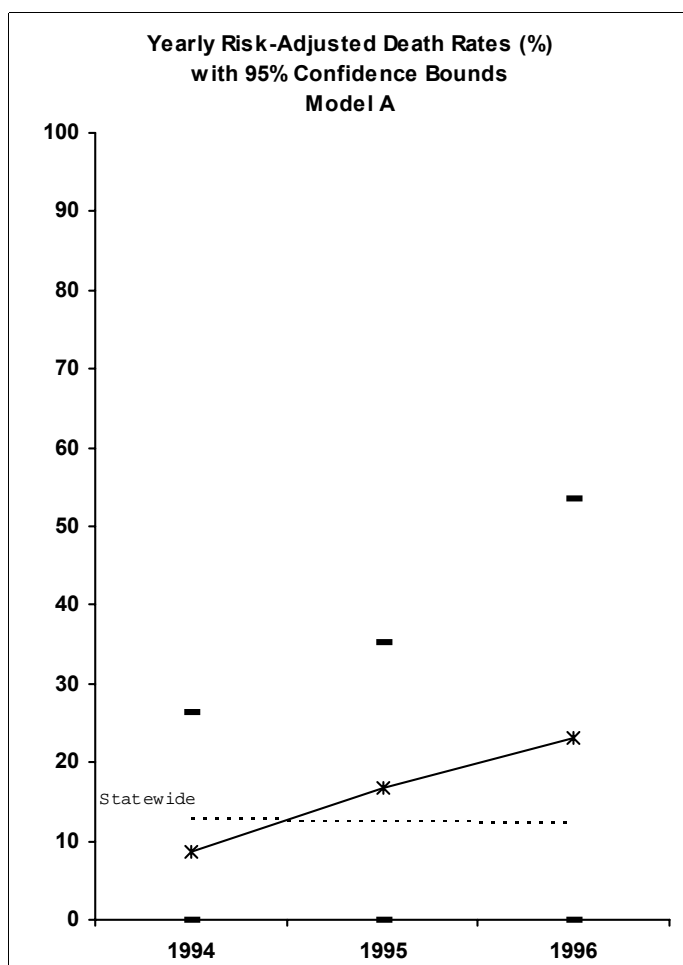

‡ Hospital sent comment letter

Office of Statewide Health Planning and Development
California Hospital Outcomes Project

Kings County: Corcoran District Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	28	4	3.6	1.7	14.3	12.7	14.3	2.5	26.0	0.491
	1994	13.0	8	1	1.5	1.0	12.5	18.7	8.7	0.0	26.3	0.533
	1995	12.8	13	2	1.5	1.1	15.4	11.8	16.7	0.0	35.2	0.468
	1996	12.3	7	1	0.5	0.7	14.3	7.7	23.0	0.0	53.6	0.440
Model B	All Years	12.7	28	4	3.3	1.5	14.3	12.0	15.2	3.8	26.5	0.438
	1994	12.9	8	1	1.6	1.0	12.5	19.4	8.3	0.0	24.3	0.501
	1995	12.8	13	2	1.1	1.0	15.4	8.1	24.2	1.4	47.1	0.286
	1996	12.4	7	1	0.7	0.7	14.3	10.5	16.8	0.0	38.2	0.629

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Kings County: Hanford Community Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	348	49	48.3	6.0	14.1	13.9	12.9	9.8	16.0	0.483
	1994	13.0	127	16	18.3	3.6	12.6	14.4	11.3	6.3	16.4	0.318
	1995	12.8	115	20	17.0	3.6	17.4	14.8	15.1	9.8	20.3	0.236
	1996	12.3	106	13	13.1	3.2	12.3	12.3	12.3	6.4	18.2	0.566
Model B	All Years	12.7	337	46	47.5	5.3	13.6	14.1	12.3	9.5	15.1	0.432
	1994	12.9	122	15	16.8	3.0	12.3	13.7	11.6	7.0	16.2	0.346
	1995	12.8	109	18	18.0	3.3	16.5	16.5	12.8	8.3	17.4	0.549
	1996	12.4	106	13	12.7	2.9	12.3	12.0	12.6	7.2	18.1	0.523

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Lake County Summary

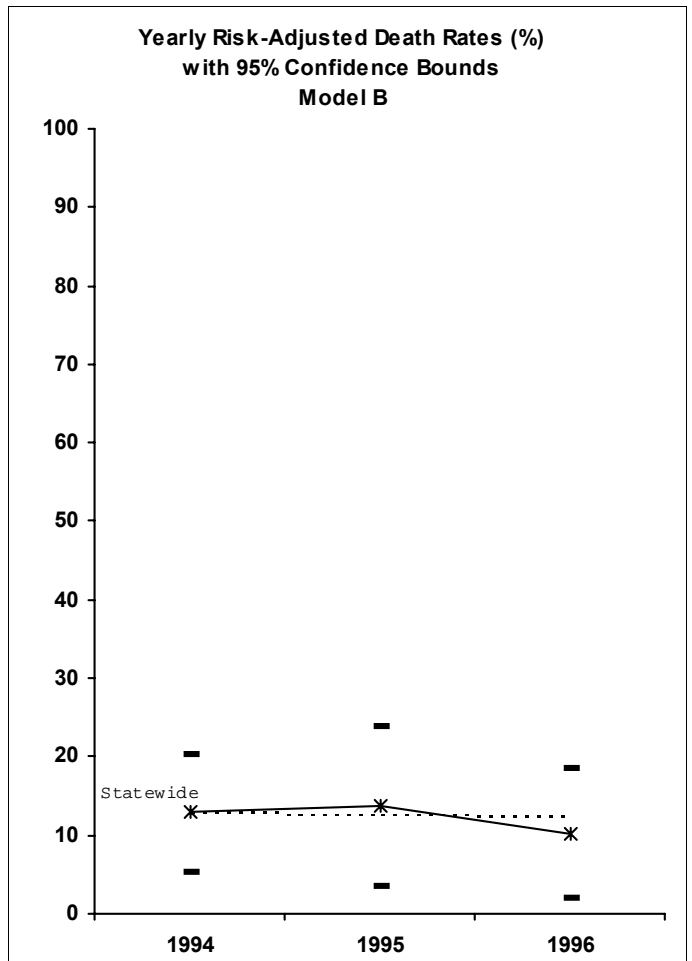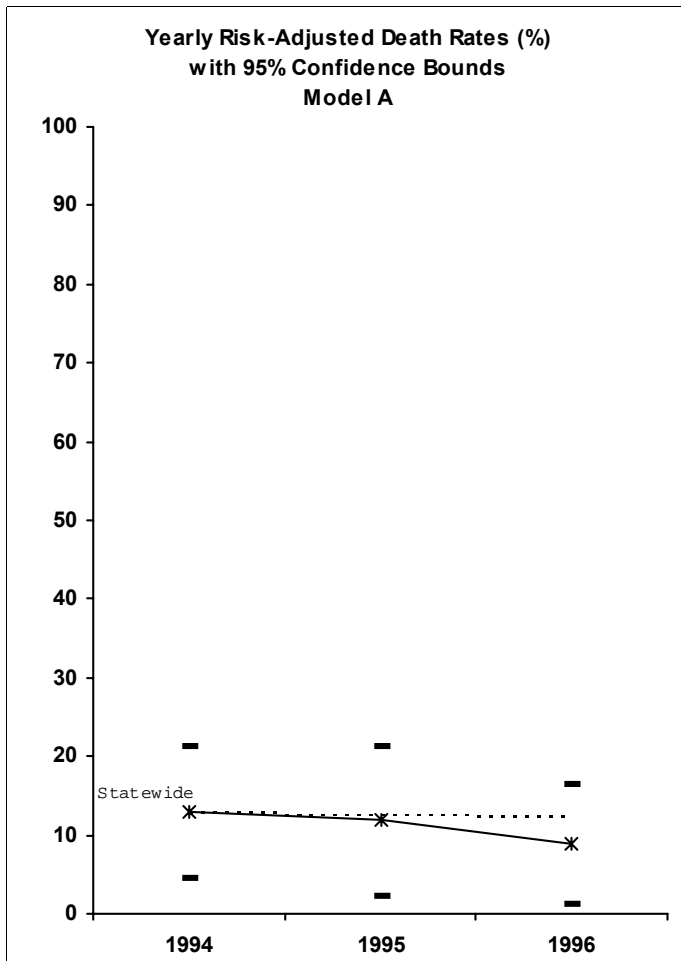|		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	2	250	44	35.3	5.1	17.6	14.1	15.8	12.2	19.4
	1994	13.0	2	91	21	13.8	3.2	23.1	15.1	19.8	13.9	25.7
	1995	12.8	2	88	14	11.6	3.0	15.9	13.1	15.5	9.0	22.0
	1996	12.3	2	71	9	10.0	2.7	12.7	14.1	11.1	4.7	17.5
Model B	All Years	12.7	2	248	44	34.0	4.7	17.7	13.7	16.4	13.0	19.9
	1994	12.9	2	91	21	15.1	2.9	23.1	16.6	18.0	13.1	22.9
	1995	12.8	2	87	14	9.4	2.7	16.1	10.8	19.1	11.9	26.3
	1996	12.4	2	70	9	9.5	2.5	12.9	13.6	11.7	5.3	18.1
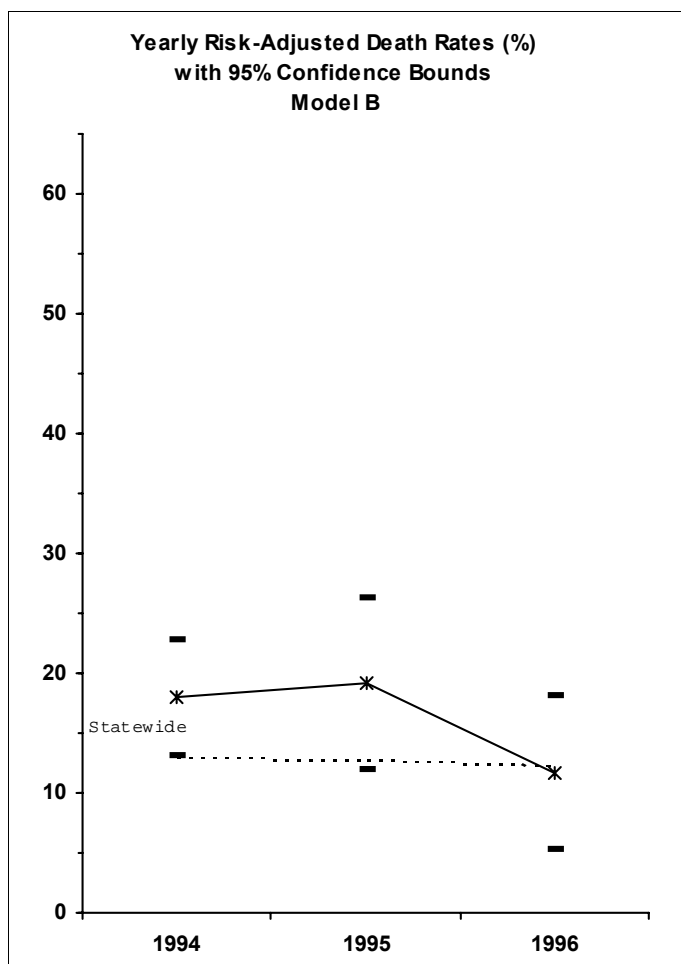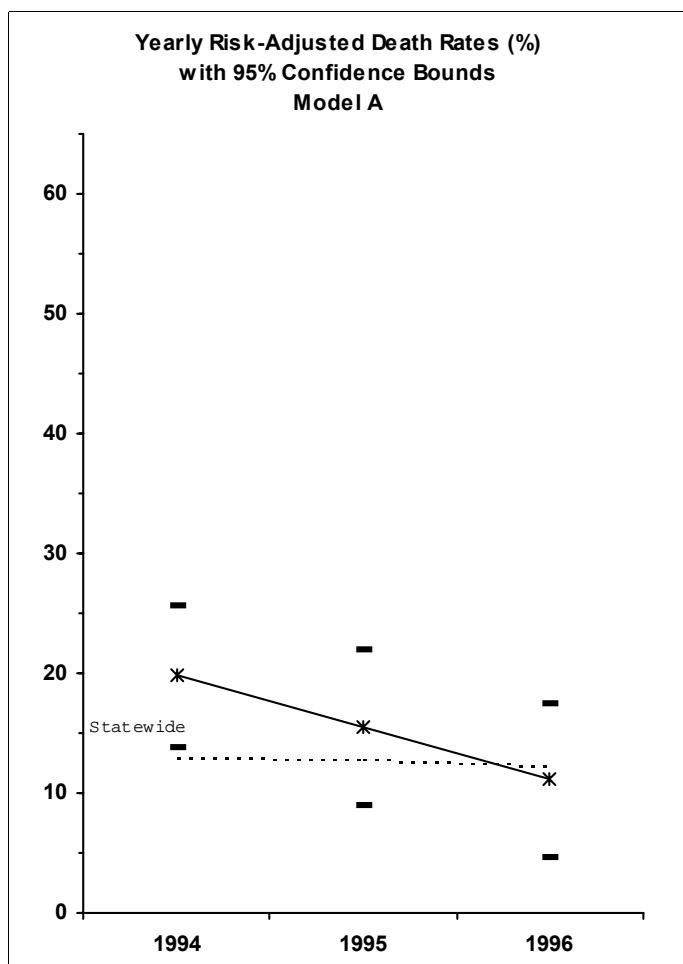
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Lake County: Redbud Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	130	17	19.2	3.8	13.1	14.8	11.2	6.3	16.1	0.328
	1994	13.0	49	7	7.0	2.3	14.3	14.2	13.0	4.7	21.4	0.566
	1995	12.8	41	5	5.4	2.1	12.2	13.2	11.8	2.3	21.4	0.539
	1996	12.3	40	5	6.9	2.2	12.5	17.2	9.0	1.3	16.6	0.270
Model B	All Years	12.7	130	17	17.7	3.5	13.1	13.6	12.2	7.3	17.1	0.484
	1994	12.9	49	7	7.0	2.1	14.3	14.3	12.9	5.4	20.4	0.604
	1995	12.8	41	5	4.7	1.9	12.2	11.4	13.8	3.5	24.0	0.510
	1996	12.4	40	5	6.0	2.1	12.5	15.1	10.2	1.9	18.5	0.410

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Lake County: Sutter Lakeside Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	120	27	16.1	3.5	22.5	13.4	21.3	15.9	26.7	0.002
	1994	13.0	42	14	6.8	2.2	33.3	16.2	26.7	18.4	35.0	0.003
	1995	12.8	47	9	6.2	2.2	19.1	13.1	18.7	9.8	27.5	0.142
	1996	12.3	31	4	3.1	1.5	12.9	10.1	15.8	3.8	27.7	0.382
Model B	All Years	12.7	118	27	16.3	3.1	22.9	13.8	21.1	16.3	25.8	0.001
	1994	12.9	42	14	8.1	2.0	33.3	19.2	22.4	16.1	28.8	0.005
	1995	12.8	46	9	4.7	1.9	19.6	10.3	24.3	14.3	34.4	0.030
	1996	12.4	30	4	3.5	1.4	13.3	11.6	14.3	4.3	24.2	0.473

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

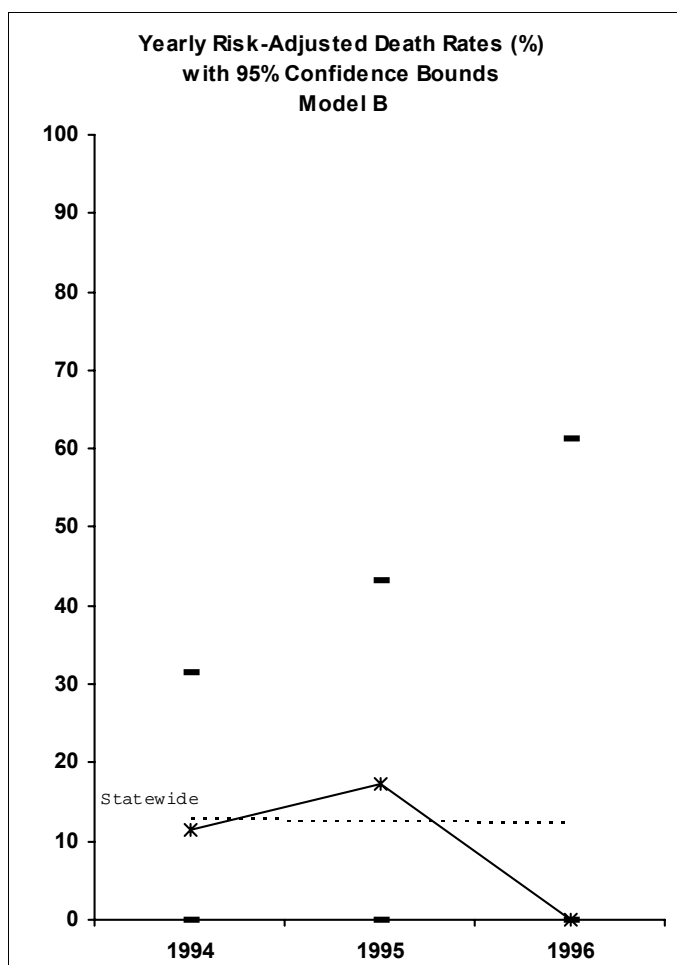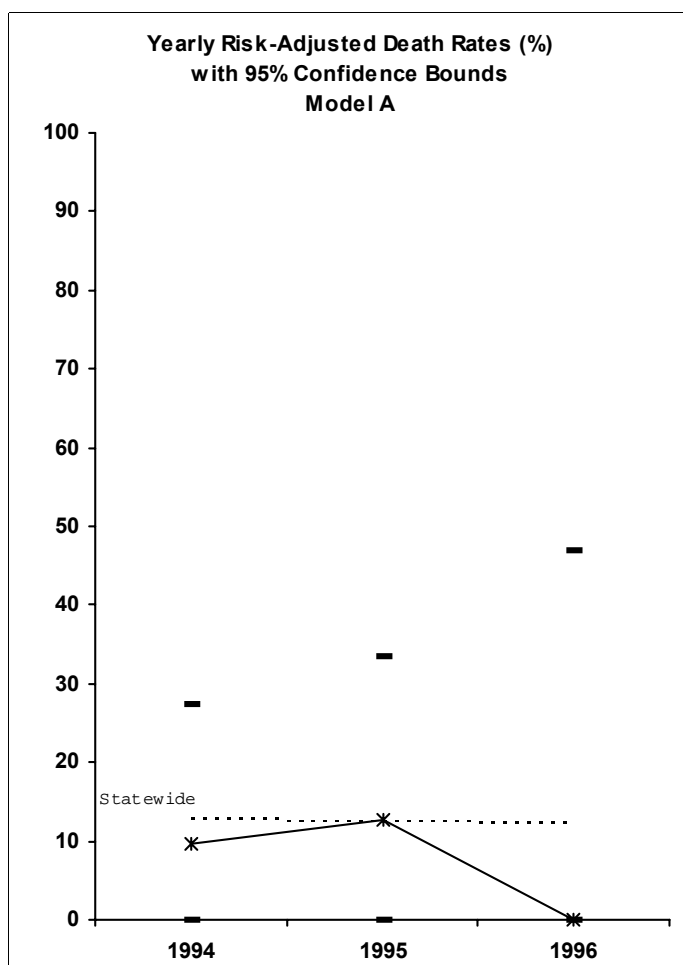|		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	1	12	2	2.6	1.3	16.7	21.5	9.8	0.0	22.7
	1994	13.0	1	6	1	1.4	0.9	16.7	22.5	9.6	0.0	27.3
	1995	12.8	1	4	1	1.0	0.8	25.0	25.0	12.8	0.0	33.5
	1996	12.3	1	2	0	0.2	0.5	0.0	11.7	0.0	0.0	46.9
Model B	All Years	12.7	1	12	2	2.0	1.2	16.7	16.7	12.7	0.0	27.9
	1994	12.9	1	6	1	1.1	0.9	16.7	18.7	11.5	0.0	31.6
	1995	12.8	1	4	1	0.7	0.8	25.0	18.6	17.2	0.0	43.3
	1996	12.4	1	2	0	0.1	0.4	0.0	7.2	0.0	0.0	61.4
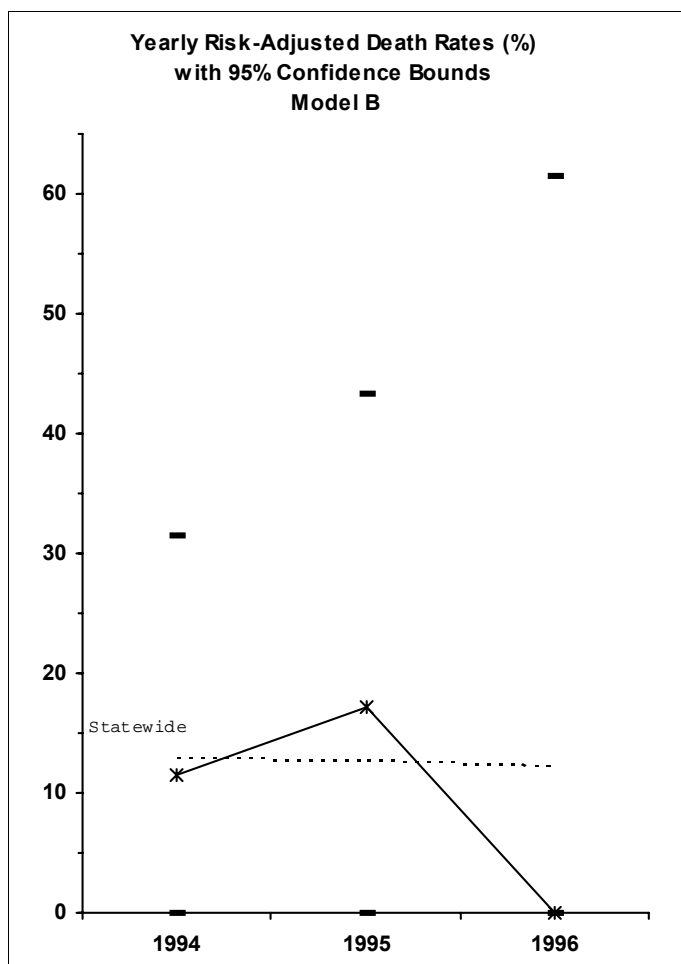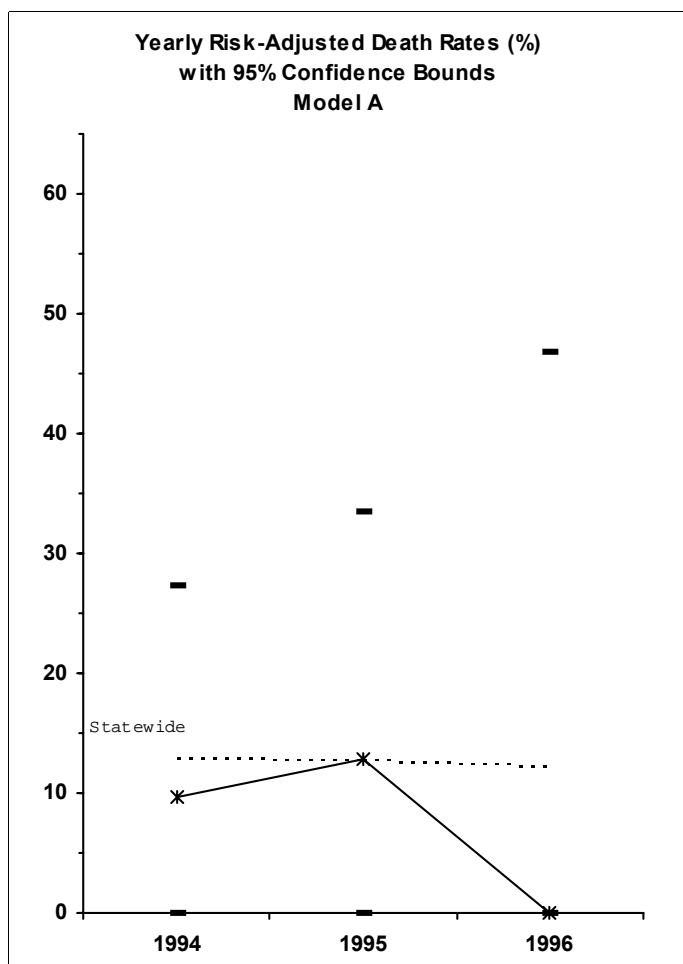
Lassen County Summary

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Lassen County: Lassen Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	12	2	2.6	1.3	16.7	21.5	9.8	0.0	22.7	0.499
	1994	13.0	6	1	1.4	0.9	16.7	22.5	9.6	0.0	27.3	0.596
	1995	12.8	4	1	1.0	0.8	25.0	25.0	12.8	0.0	33.5	0.702
	1996	12.3	2	0	0.2	0.5	0.0	11.7	0.0	0.0	46.9	0.779
Model B	All Years	12.7	12	2	2.0	1.2	16.7	16.7	12.7	0.0	27.9	0.678
	1994	12.9	6	1	1.1	0.9	16.7	18.7	11.5	0.0	31.6	0.691
	1995	12.8	4	1	0.7	0.8	25.0	18.6	17.2	0.0	43.3	0.564
	1996	12.4	2	0	0.1	0.4	0.0	7.2	0.0	0.0	61.4	0.861

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County Summary											
		Statewide Death Rate (%)	Number of Hospitals Included	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds	
											Lower	Upper
Model A	All Years	12.7	116	32,186	3,941	4,119.4	56.3	12.2	12.8	12.2	11.8	12.5
	1994	13.0	116	11,069	1,408	1,462.5	33.5	12.7	13.2	12.5	11.9	13.1
	1995	12.8	116	11,063	1,319	1,405.1	32.9	11.9	12.7	12.0	11.4	12.6
	1996	12.3	116	10,054	1,214	1,251.8	31.1	12.1	12.5	12.0	11.4	12.6
Model B	All Years	12.7	116	31,784	3,890	4,126.2	51.5	12.2	13.0	12.0	11.7	12.3
	1994	12.9	116	10,939	1,381	1,446.7	30.6	12.6	13.2	12.3	11.8	12.9
	1995	12.8	116	10,934	1,308	1,413.3	30.0	12.0	12.9	11.9	11.3	12.4
	1996	12.4	116	9,911	1,201	1,266.2	28.6	12.1	12.8	11.7	11.2	12.3
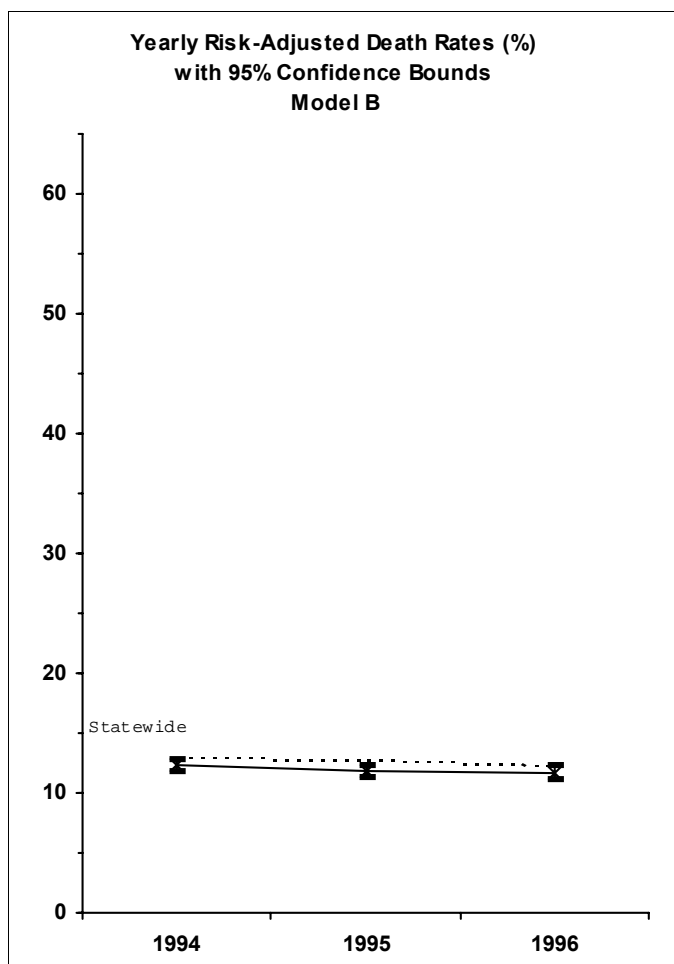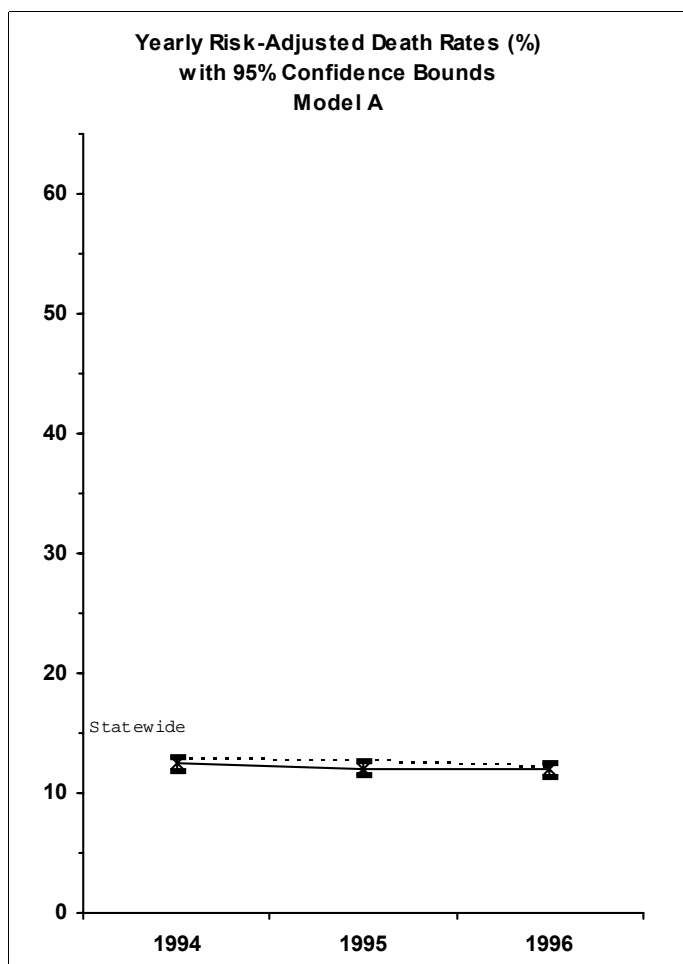
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Alhambra Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	120	30	16.9	3.6	25.0	14.0	22.6	17.3	27.9	0.000
	1994	13.0	35	12	4.3	1.8	34.3	12.2	36.5	25.6	47.4	0.000
	1995	12.8	43	9	7.3	2.3	20.9	17.0	15.7	7.8	23.6	0.296
	1996	12.3	42	9	5.3	2.0	21.4	12.5	21.1	11.8	30.4	0.061
Model B	All Years	12.7	116	30	19.3	3.4	25.9	16.7	19.7	15.3	24.1	0.002
	1994	12.9	35	12	5.5	1.9	34.3	15.8	28.0	19.6	36.5	0.001
	1995	12.8	39	9	8.2	2.1	23.1	21.1	14.0	7.7	20.4	0.437
	1996	12.4	42	9	5.6	2.0	21.4	13.3	19.9	11.4	28.4	0.074

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	481	46	42.8	5.9	9.6	8.9	13.7	10.2	17.1	0.317
	1994	13.0	145	15	13.7	3.3	10.3	9.5	14.2	8.0	20.4	0.396
	1995	12.8	160	14	12.7	3.3	8.8	7.9	14.1	7.6	20.6	0.391
	1996	12.3	176	17	16.3	3.6	9.7	9.3	12.8	7.5	18.2	0.471
Model B	All Years	12.7	480	46	49.2	5.7	9.6	10.2	11.9	9.0	14.8	0.321
	1994	12.9	145	15	14.9	3.1	10.3	10.3	13.0	7.7	18.4	0.535
	1995	12.8	159	14	14.8	3.2	8.8	9.3	12.1	6.7	17.6	0.473
	1996	12.4	176	17	19.5	3.5	9.7	11.1	10.8	6.4	15.1	0.286
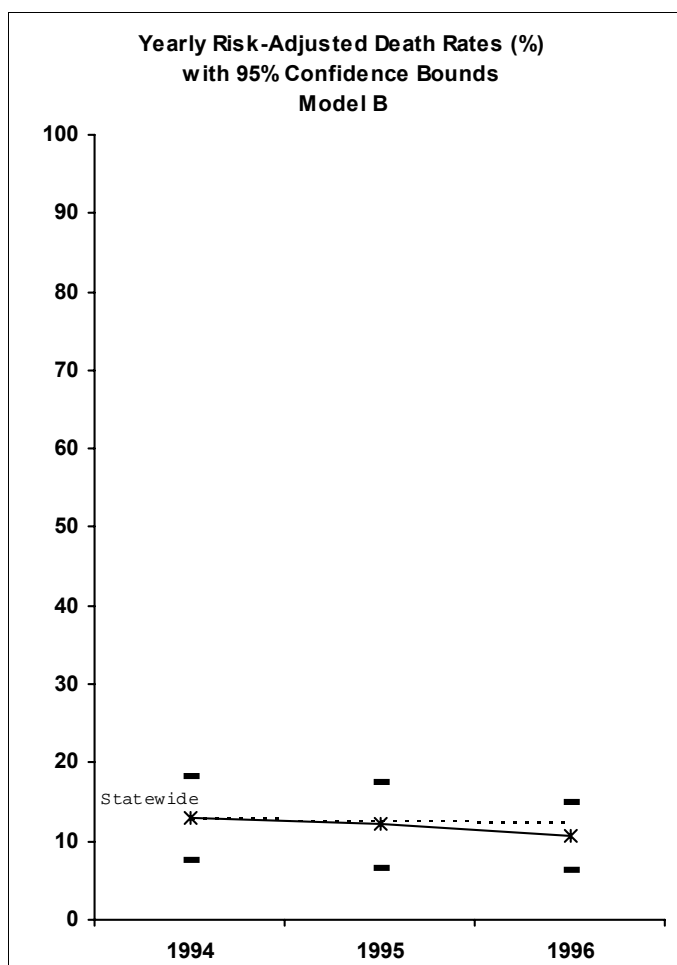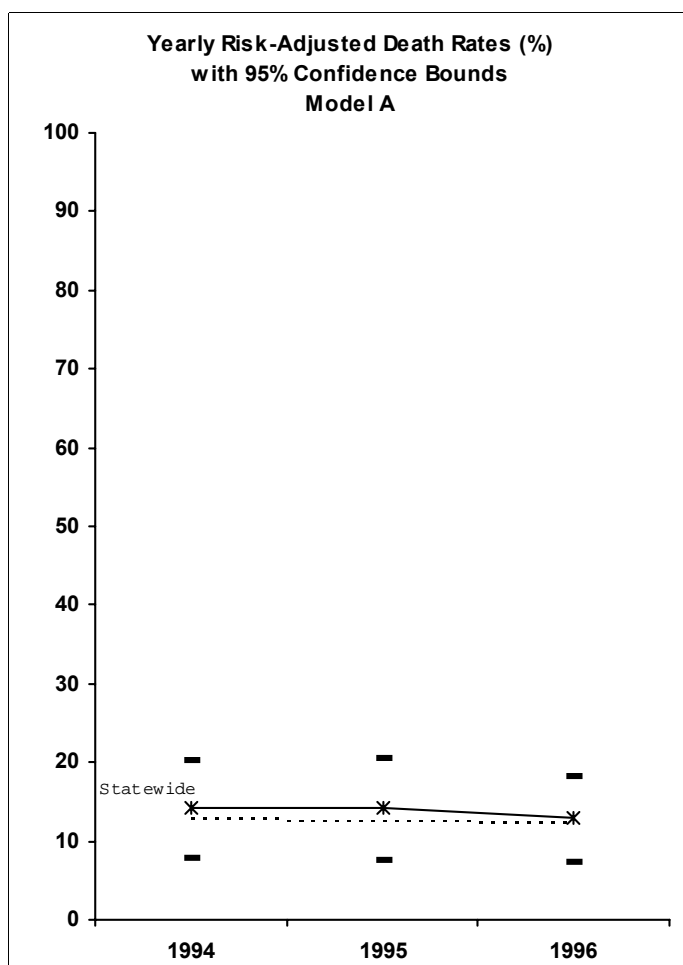
Title: **Los Angeles County: Antelope Valley Hospital**

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Barlow Respiratory Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	1	1	0.3	0.5	100.0	34.1	37.3	2.6	71.9	0.341
	1994	13.0	0									
	1995	12.8	1	1	0.3	0.5	100.0	34.1	37.5	2.7	72.4	0.341
	1996	12.3	0									
Model B	All Years	12.7	1	1	0.2	0.4	100.0	18.0	70.7	17.5	100.0	0.180
	1994	12.9	0									
	1995	12.8	1	1	0.2	0.4	100.0	18.0	71.3	17.6	100.0	0.180
	1996	12.4	0									
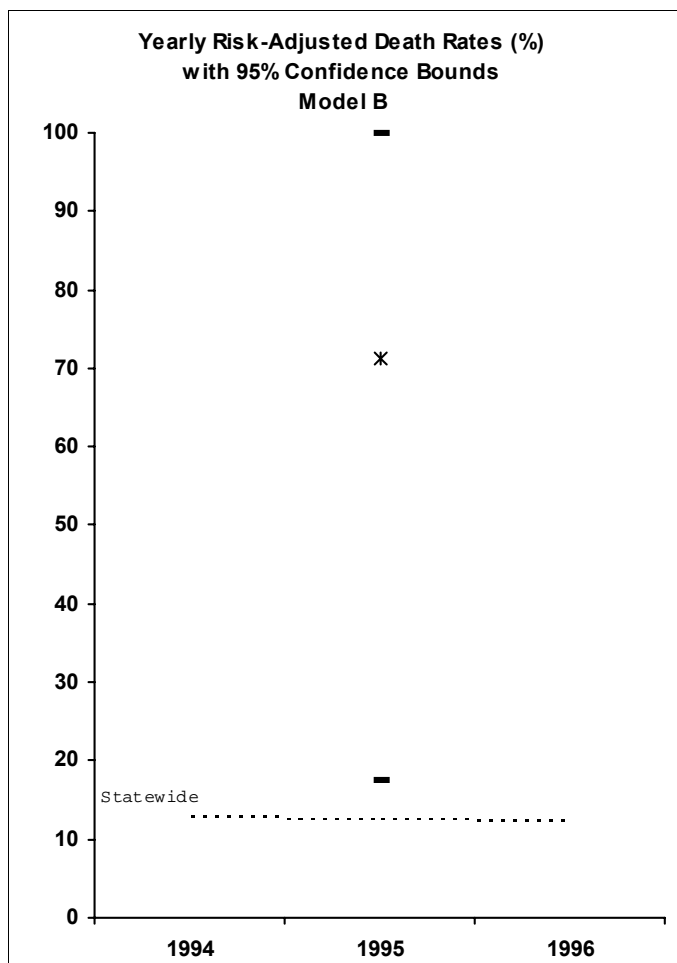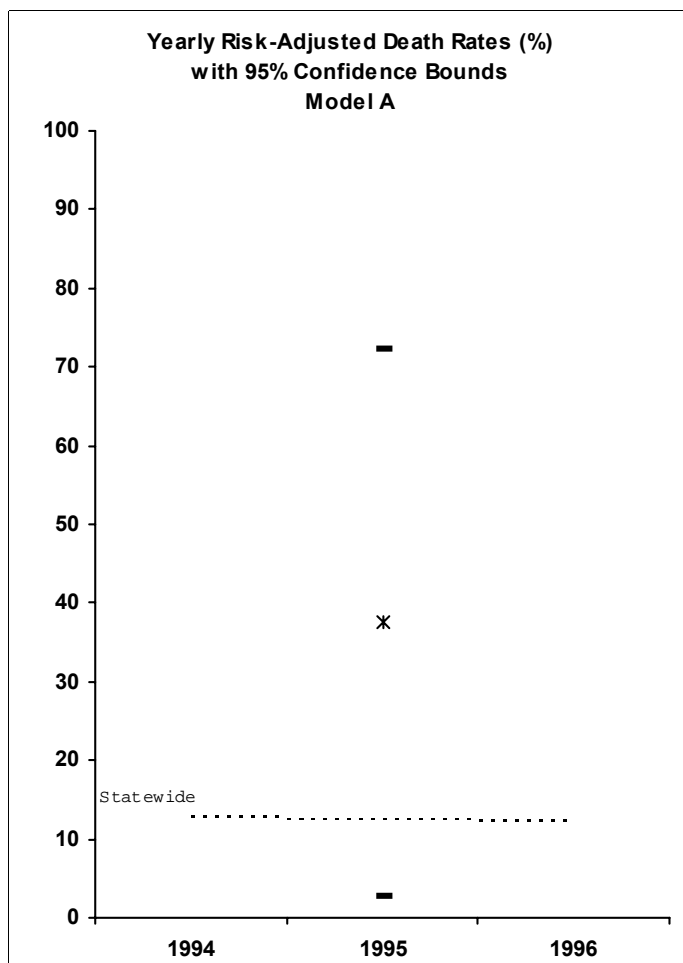
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Los Angeles County: Bay Harbor Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	202	30	28.3	4.7	14.9	14.0	13.5	9.4	17.6	0.393
	1994	13.0	76	10	11.2	2.9	13.2	14.7	11.6	5.1	18.1	0.416
	1995	12.8	72	11	10.5	2.9	15.3	14.5	13.5	6.6	20.3	0.481
	1996	12.3	54	9	6.7	2.3	16.7	12.3	16.7	8.2	25.2	0.209
Model B	All Years	12.7	202	30	22.9	4.2	14.9	11.3	16.6	12.1	21.2	0.060
	1994	12.9	76	10	9.2	2.6	13.2	12.1	14.1	6.8	21.3	0.437
	1995	12.8	72	11	8.8	2.5	15.3	12.2	16.1	8.9	23.2	0.237
	1996	12.4	54	9	5.0	2.0	16.7	9.2	22.4	12.5	32.3	0.048
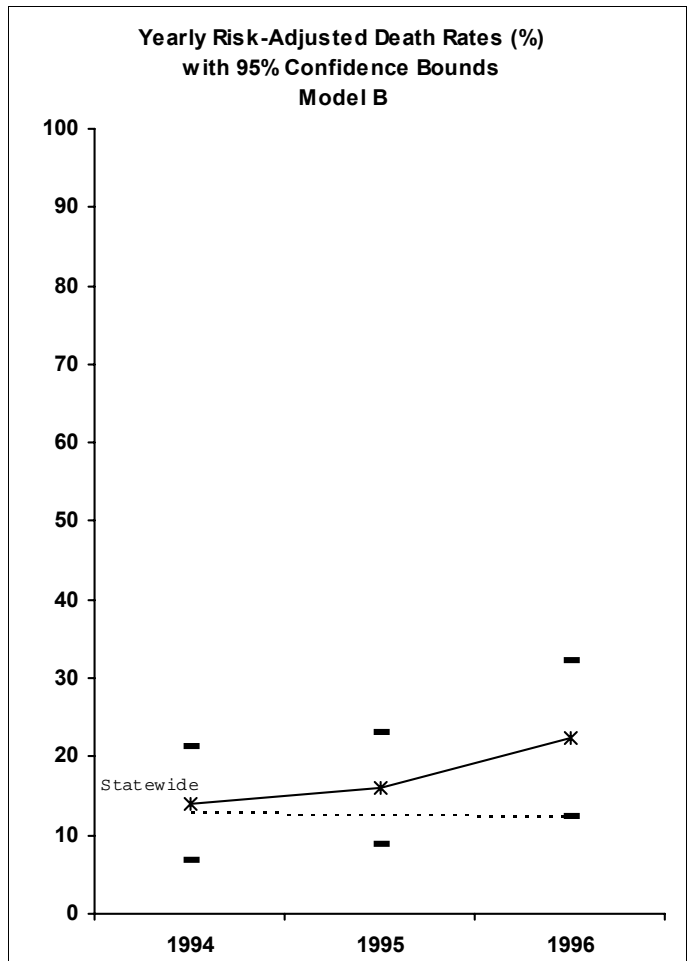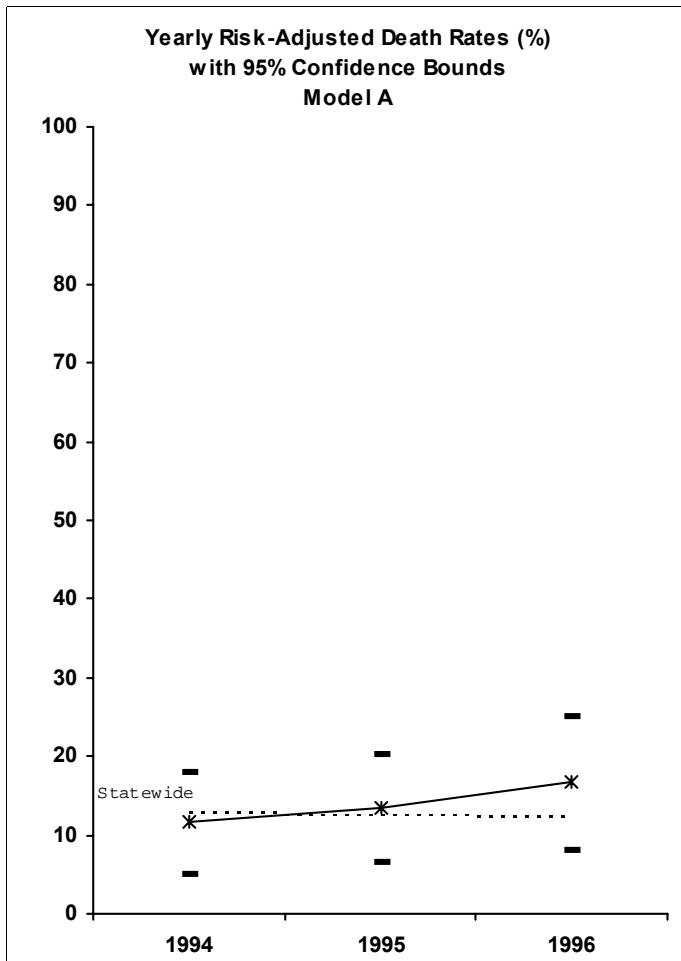
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Bellflower Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	46	4	6.6	2.3	8.7	14.4	7.7	0.0	16.2	0.175
	1994	13.0	12	1	1.2	1.0	8.3	9.9	10.9	0.0	32.5	0.663
	1995	12.8	15	0	1.9	1.2	0.0	12.7	0.0	0.0	16.3	0.119
	1996	12.3	19	3	3.5	1.6	15.8	18.6	10.5	0.0	21.5	0.514
Model B	All Years	12.7	46	4	5.6	1.9	8.7	12.2	9.0	0.6	17.5	0.288
	1994	12.9	12	1	0.5	0.7	8.3	4.6	23.6	0.0	56.6	0.433
	1995	12.8	15	0	1.7	1.1	0.0	11.3	0.0	0.0	16.3	0.125
	1996	12.4	19	3	3.4	1.4	15.8	17.8	11.0	1.0	21.0	0.555
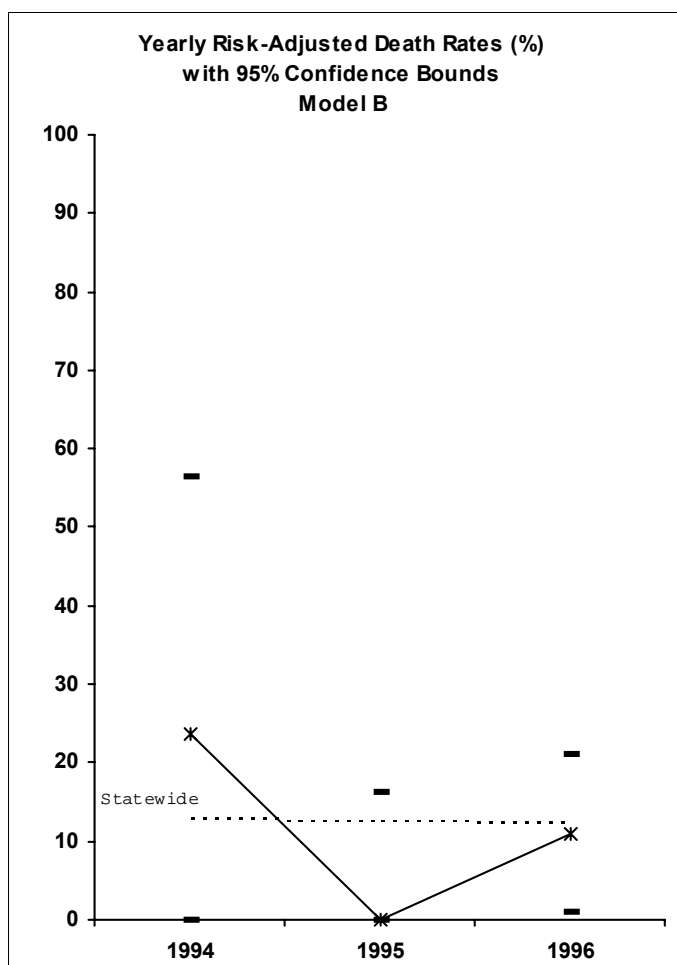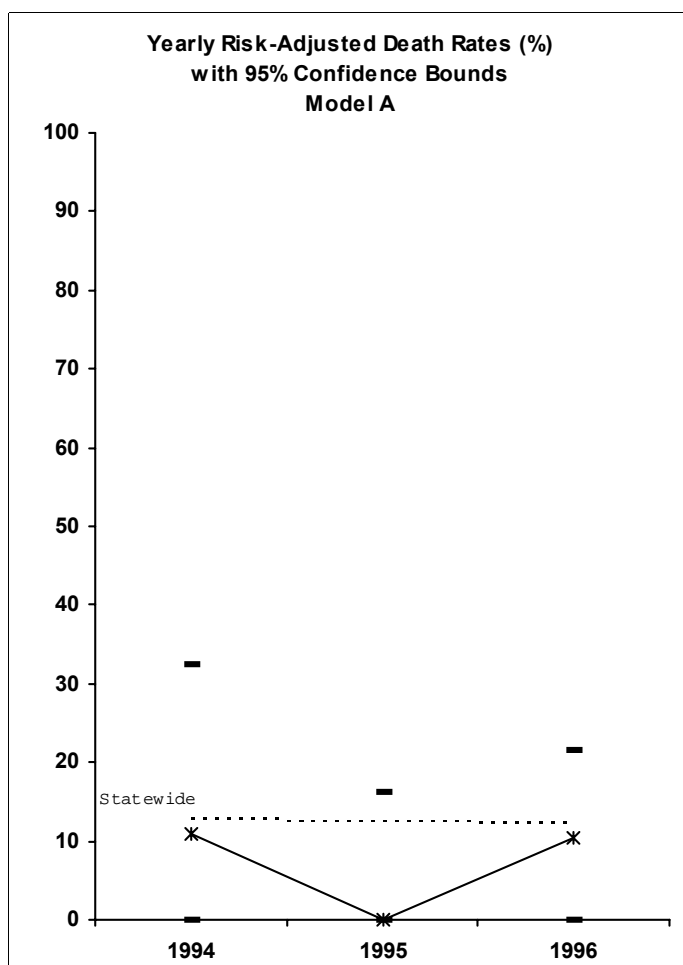
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Bellwood General Hospital												
Model A	All Years	12.7	47	10	5.0	2.0	21.3	10.6	25.5	15.5	35.5	0.017
	1994	13.0	22	4	2.7	1.4	18.2	12.2	19.3	5.6	33.1	0.270
	1995	12.8	13	5	1.4	1.0	38.5	10.4	47.2	28.0	66.5	0.005
	1996	12.3	12	1	0.9	0.9	8.3	7.9	13.1	0.0	36.2	0.639
Model B	All Years	12.7	47	10	5.2	1.8	21.3	11.0	24.5	15.6	33.4	0.014
	1994	12.9	22	4	3.2	1.3	18.2	14.7	16.0	5.5	26.5	0.401
	1995	12.8	13	5	1.1	1.0	38.5	8.6	57.6	36.0	79.1	0.002
	1996	12.4	12	1	0.8	0.8	8.3	7.0	14.7	0.0	39.3	0.596
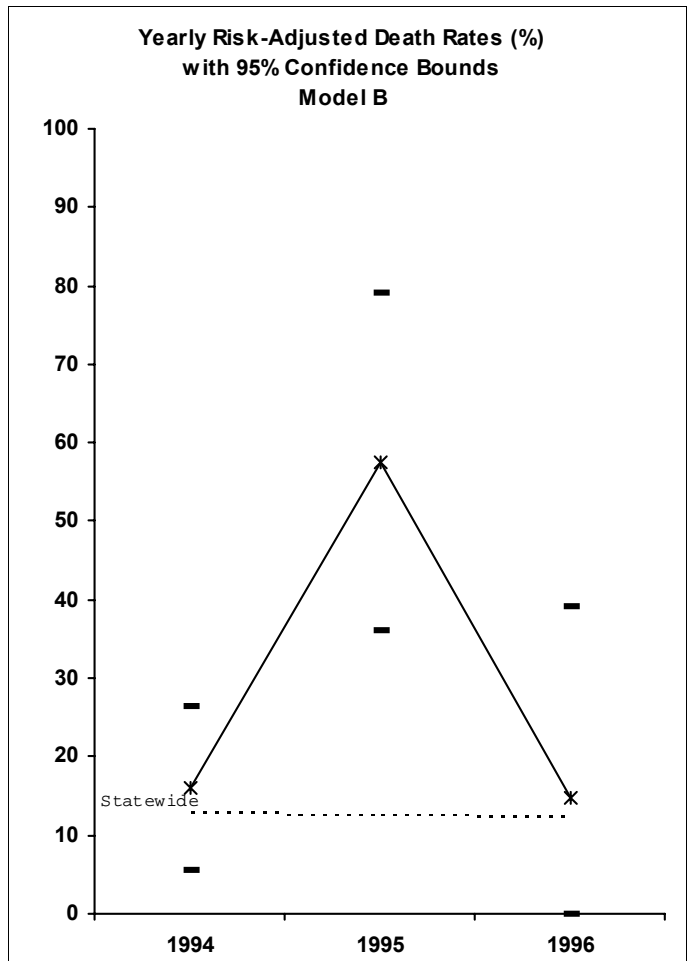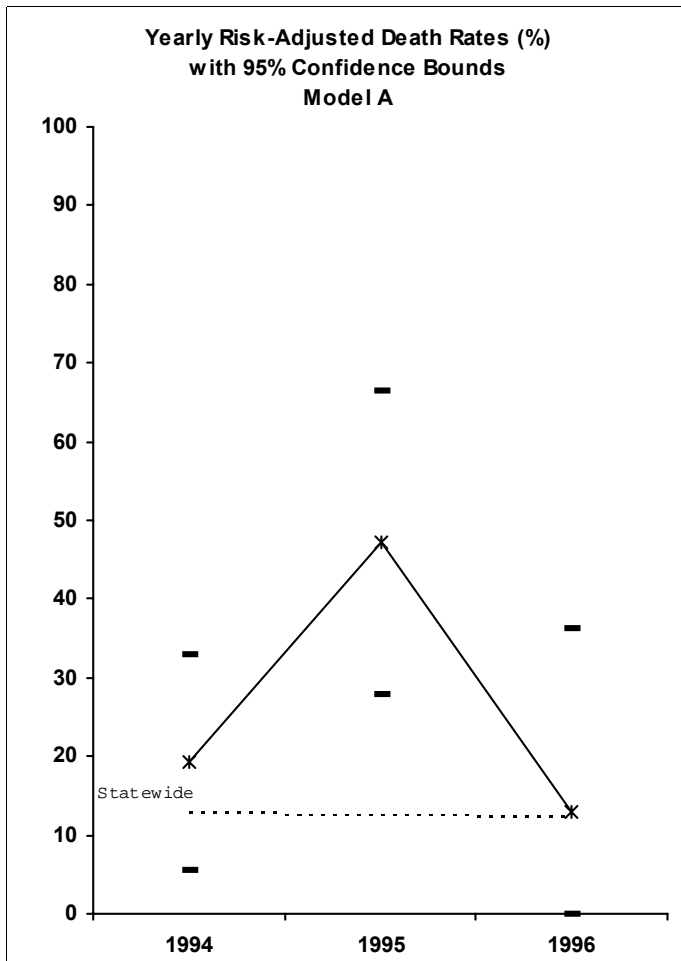
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Beverly Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	358	47	50.1	6.2	13.1	14.0	11.9	8.9	15.0	0.341
	1994	13.0	111	15	18.3	3.7	13.5	16.5	10.6	5.5	15.8	0.227
	1995	12.8	147	20	20.7	3.9	13.6	14.1	12.3	7.6	17.1	0.486
	1996	12.3	100	12	11.1	3.0	12.0	11.1	13.4	6.9	19.9	0.429
Model B	All Years	12.7	351	46	51.1	5.6	13.1	14.6	11.4	8.7	14.2	0.207
	1994	12.9	107	14	21.3	3.5	13.1	19.9	8.5	4.4	12.6	0.021
	1995	12.8	145	20	19.6	3.6	13.8	13.5	13.1	8.5	17.6	0.504
	1996	12.4	99	12	10.2	2.6	12.1	10.3	14.5	8.3	20.8	0.301
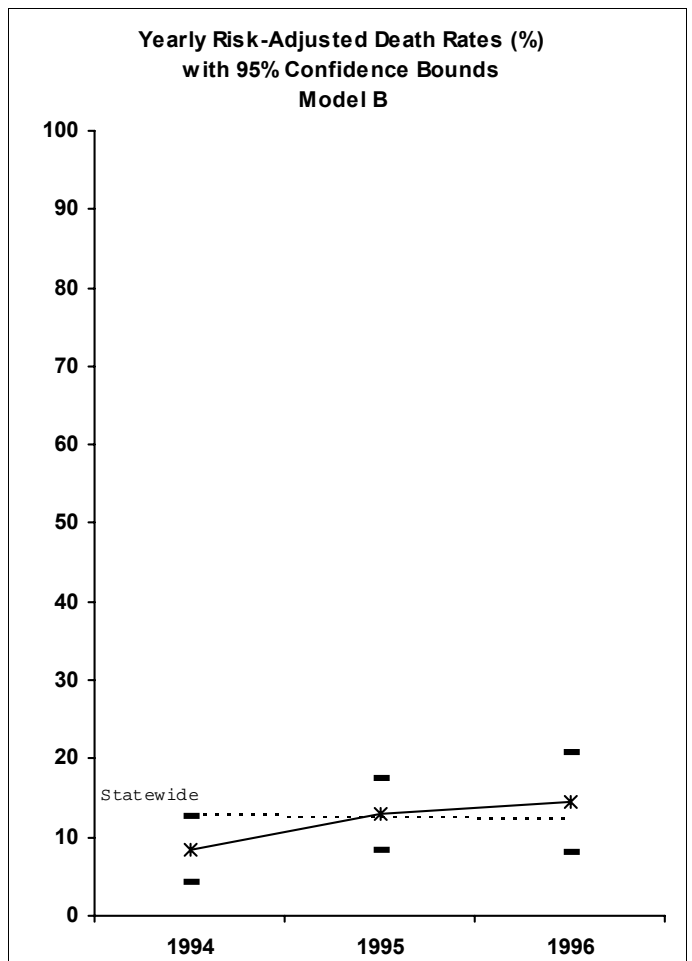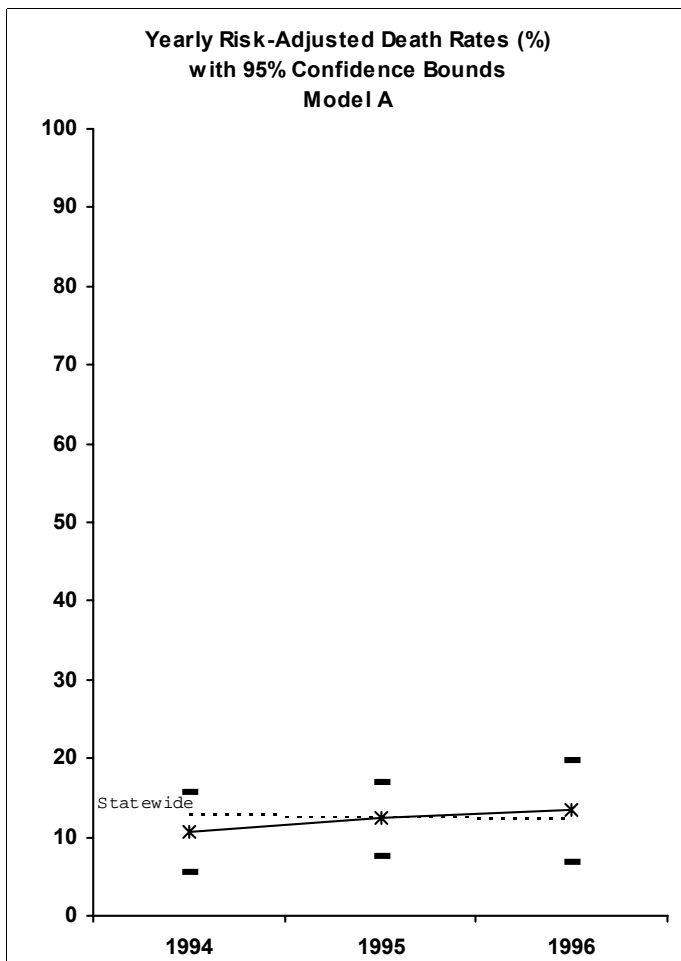
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Brotman Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	324	52	43.3	5.8	16.0	13.4	15.3	11.9	18.6	0.082
	1994	13.0	114	22	16.7	3.6	19.3	14.6	17.1	11.6	22.5	0.093
	1995	12.8	105	15	13.8	3.3	14.3	13.1	13.9	8.0	19.9	0.402
	1996	12.3	105	15	12.8	3.2	14.3	12.2	14.4	8.4	20.5	0.294
Model B	All Years	12.7	324	52	49.1	5.5	16.0	15.2	13.5	10.6	16.3	0.328
	1994	12.9	114	22	18.5	3.5	19.3	16.3	15.3	10.6	20.1	0.194
	1995	12.8	105	15	16.2	3.0	14.3	15.4	11.9	7.1	16.6	0.415
	1996	12.4	105	15	14.3	3.1	14.3	13.7	12.9	7.7	18.1	0.469
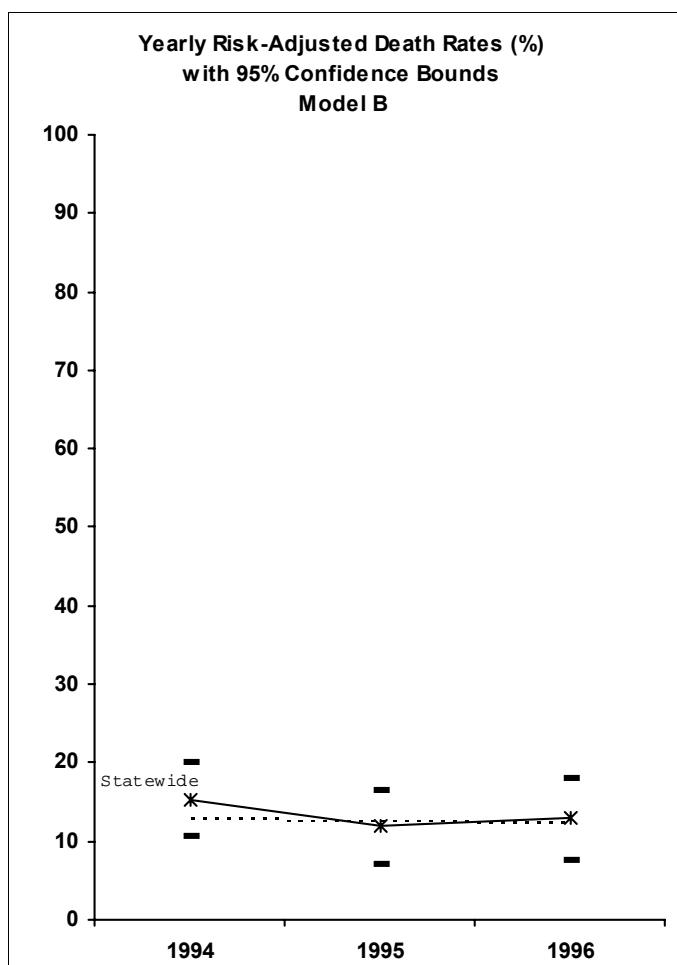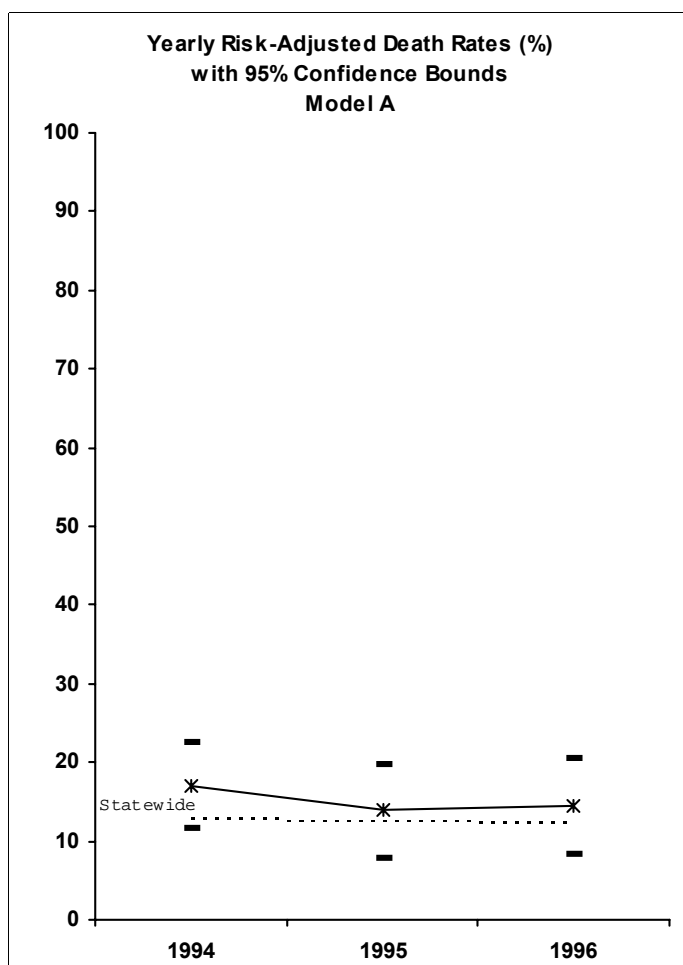
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: California Hospital Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	294	47	42.0	5.6	16.0	14.3	14.2	10.9	17.5	0.208
	1994	13.0	104	20	15.3	3.4	19.2	14.7	16.9	11.3	22.6	0.111
	1995	12.8	91	8	12.9	3.1	8.8	14.1	8.0	2.0	13.9	0.071
	1996	12.3	99	19	13.8	3.2	19.2	14.0	17.0	11.4	22.6	0.076
Model B	All Years	12.7	293	47	47.9	5.2	16.0	16.4	12.5	9.8	15.2	0.473
	1994	12.9	104	20	16.8	3.2	19.2	16.2	15.4	10.6	20.1	0.196
	1995	12.8	90	8	12.4	2.8	8.9	13.8	8.2	2.6	13.9	0.075
	1996	12.4	99	19	18.7	3.1	19.2	18.9	12.6	8.6	16.6	0.515
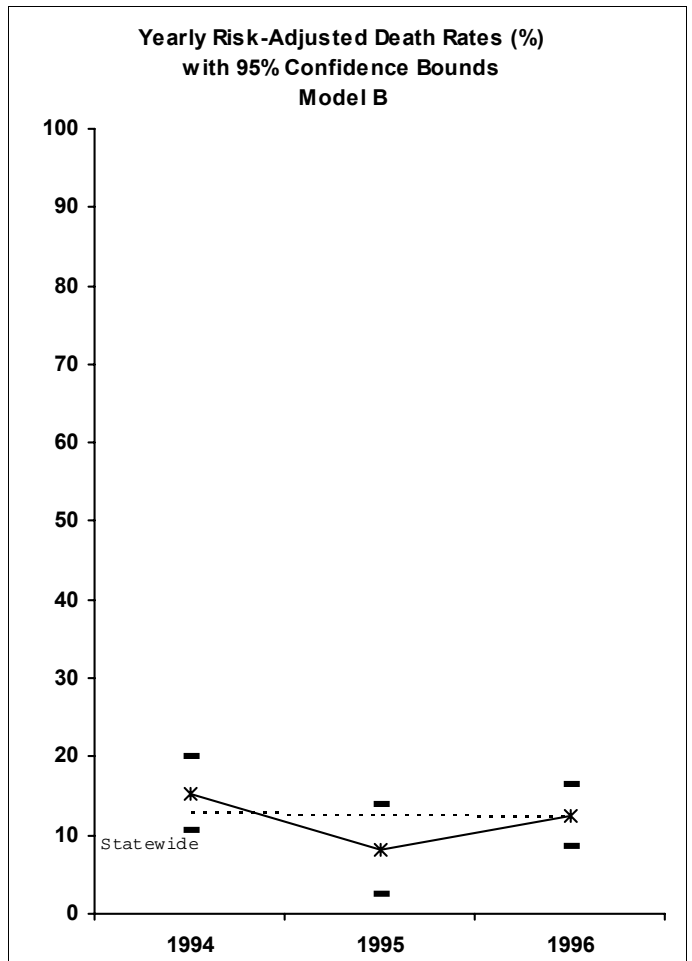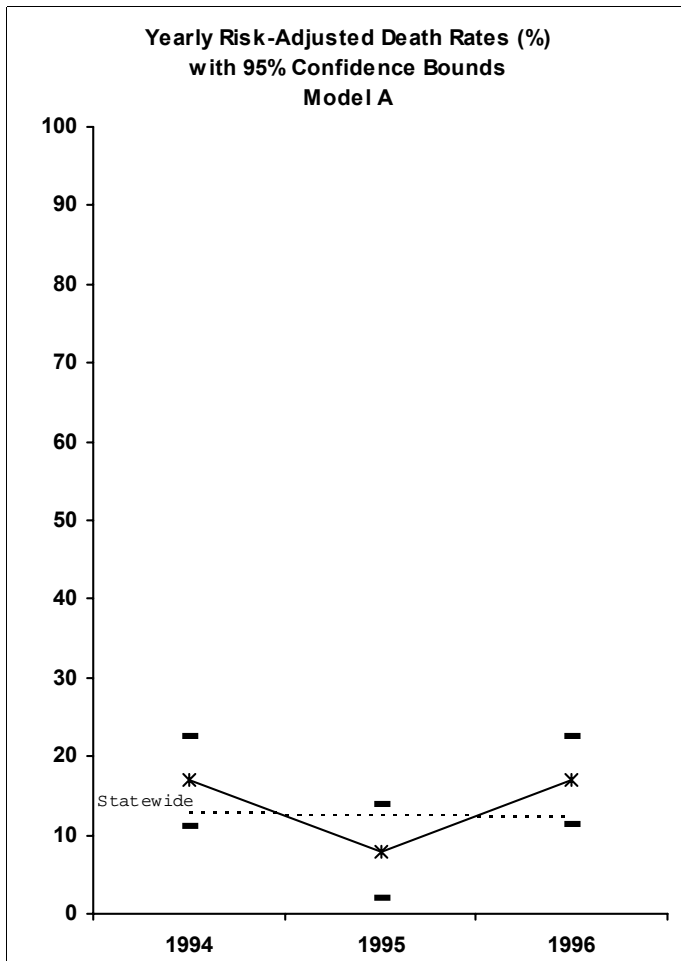
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Cedars-Sinai Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	1253	129	186.5	11.8	10.3	14.9	8.8	7.2	10.4	0.000
	1994	13.0	471	51	74.2	7.4	10.8	15.8	8.9	6.4	11.4	0.001
	1995	12.8	376	38	55.1	6.4	10.1	14.7	8.8	5.9	11.8	0.004
	1996	12.3	406	40	57.2	6.6	9.9	14.1	8.6	5.9	11.4	0.004
Model B	All Years	12.7	1210	125	174.4	10.7	10.3	14.4	9.1	7.6	10.6	0.000
	1994	12.9	462	49	68.8	6.7	10.6	14.9	9.2	6.7	11.7	0.001
	1995	12.8	358	38	51.8	5.8	10.6	14.5	9.4	6.6	12.2	0.009
	1996	12.4	390	38	53.7	6.0	9.7	13.8	8.7	6.0	11.5	0.004
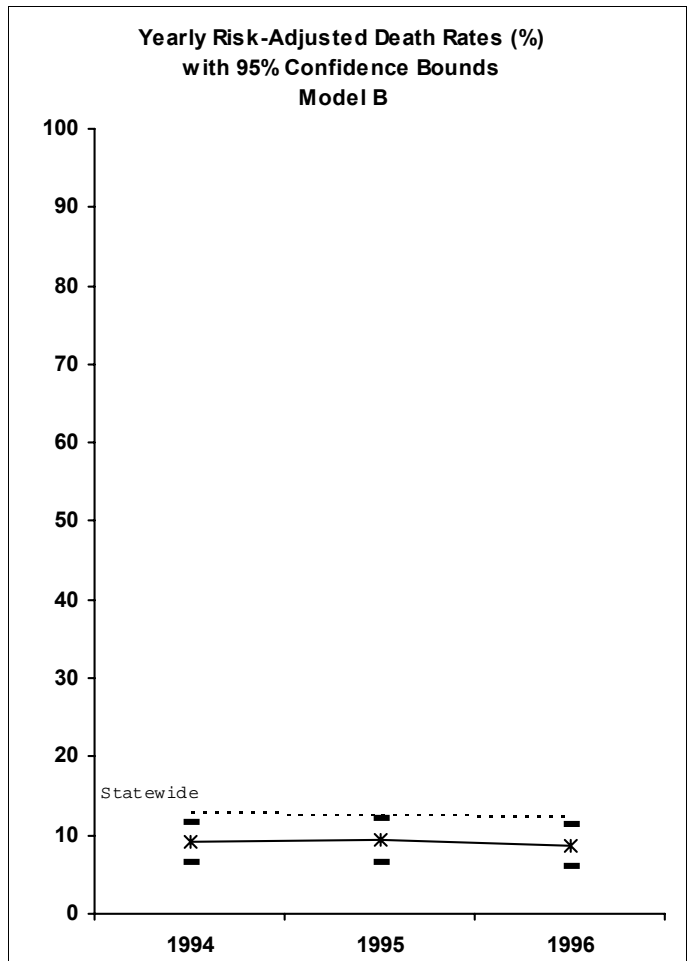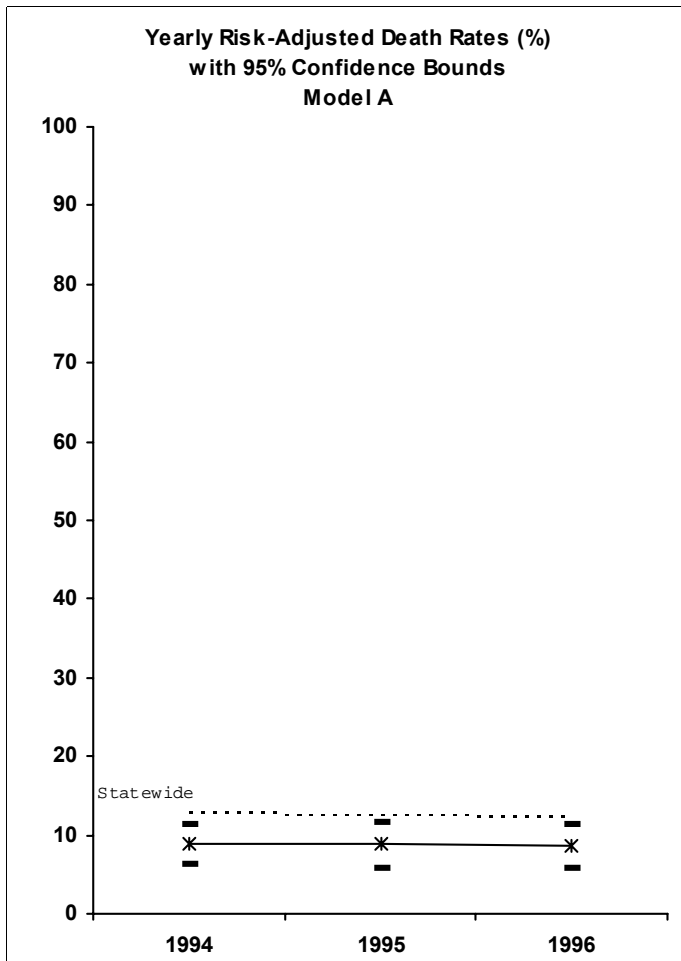
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Centinela Hospital Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	348	43	37.4	5.5	12.4	10.7	14.6	11.0	18.3	0.175
	1994	13.0	113	15	11.2	3.0	13.3	9.9	17.4	10.6	24.2	0.133
	1995	12.8	127	12	15.0	3.4	9.4	11.8	10.2	4.5	16.0	0.239
	1996	12.3	108	16	11.3	3.0	14.8	10.4	17.6	11.1	24.0	0.084
Model B	All Years	12.7	344	43	36.4	4.9	12.5	10.6	15.0	11.7	18.4	0.107
	1994	12.9	110	15	12.3	2.8	13.6	11.2	15.8	10.1	21.5	0.207
	1995	12.8	126	12	13.2	3.0	9.5	10.5	11.6	5.8	17.4	0.416
	1996	12.4	108	16	10.9	2.6	14.8	10.1	18.1	12.3	24.0	0.044
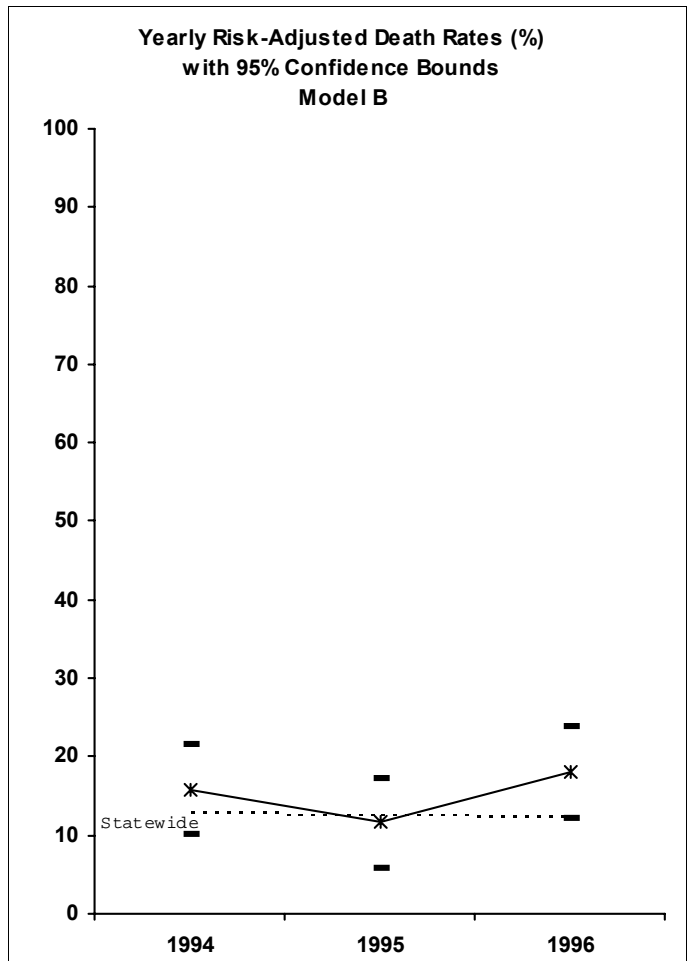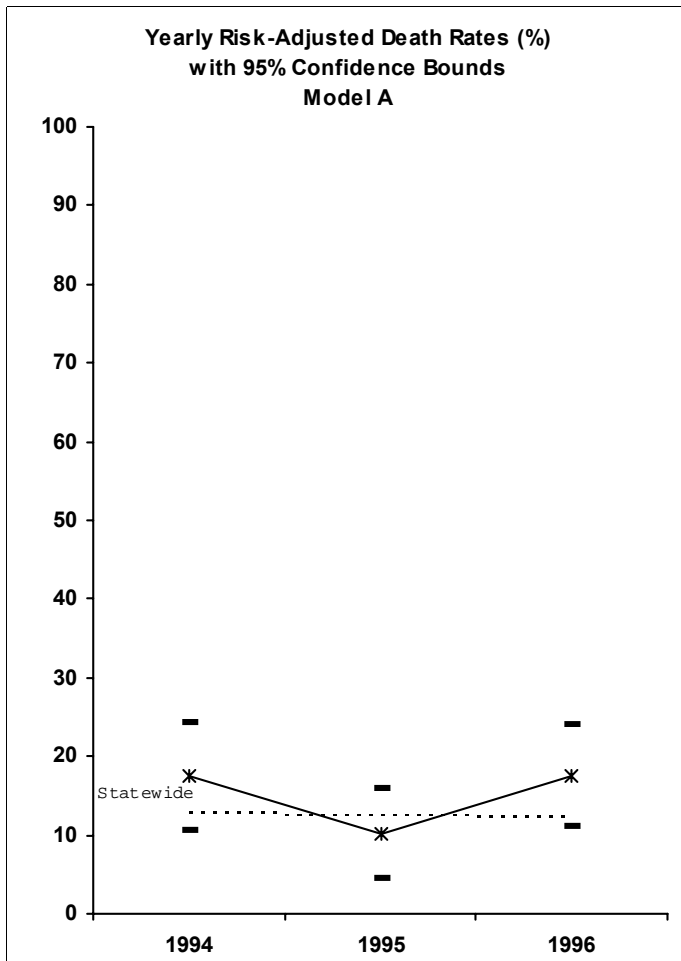
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Century City Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	176	23	26.8	4.5	13.1	15.2	10.9	6.7	15.1	0.234
	1994	13.0	73	7	10.8	2.9	9.6	14.7	8.4	1.7	15.2	0.124
	1995	12.8	48	9	8.7	2.5	18.8	18.2	13.2	6.1	20.2	0.528
	1996	12.3	55	7	7.3	2.4	12.7	13.2	11.9	3.9	19.8	0.553
Model B	All Years	12.7	175	22	25.6	4.1	12.6	14.6	10.9	6.9	14.9	0.225
	1994	12.9	73	7	11.2	2.7	9.6	15.3	8.1	2.0	14.2	0.080
	1995	12.8	48	9	8.3	2.2	18.8	17.2	14.0	7.2	20.7	0.442
	1996	12.4	54	6	6.2	2.1	11.1	11.5	12.0	3.6	20.4	0.573
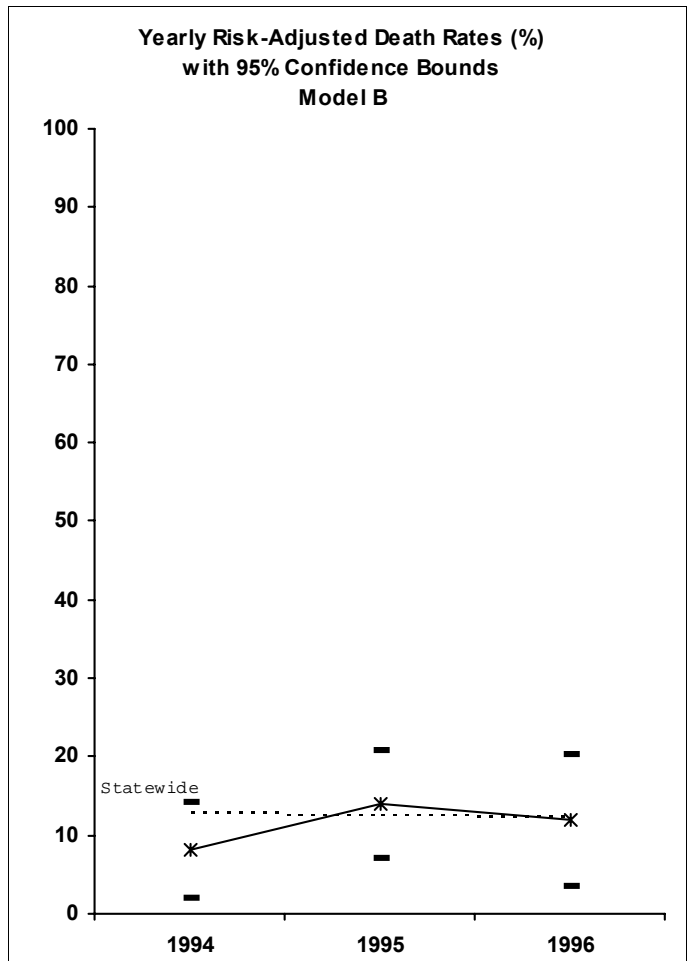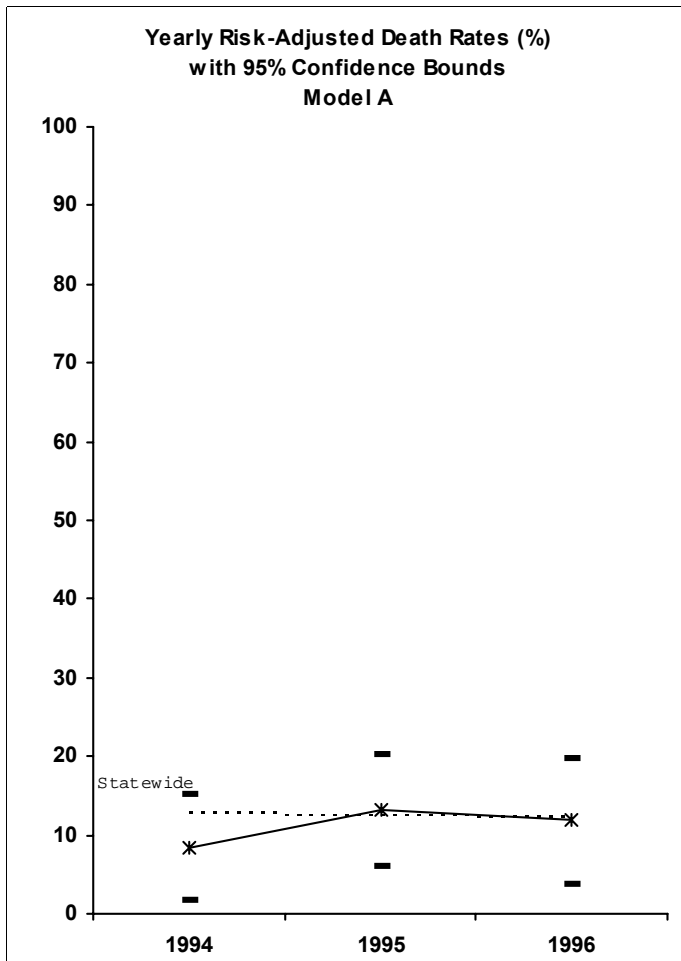
Yearly Risk-adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Los Angeles County: Citrus Valley Med Ctr, Inter-Community Campus

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	432	58	54.7	6.5	13.4	12.7	13.5	10.5	16.5	0.329
	1994	13.0	132	19	17.4	3.7	14.4	13.2	14.2	8.8	19.5	0.369
	1995	12.8	157	21	19.3	3.9	13.4	12.3	14.0	8.9	19.0	0.366
	1996	12.3	143	18	18.1	3.8	12.6	12.6	12.3	7.3	17.3	0.556
Model B	All Years	12.7	430	58	53.7	6.0	13.5	12.5	13.7	10.9	16.5	0.262
	1994	12.9	131	19	16.7	3.3	14.5	12.7	14.7	9.7	19.8	0.285
	1995	12.8	156	21	17.9	3.4	13.5	11.5	15.0	10.2	19.8	0.220
	1996	12.4	143	18	19.2	3.6	12.6	13.4	11.6	7.0	16.2	0.435
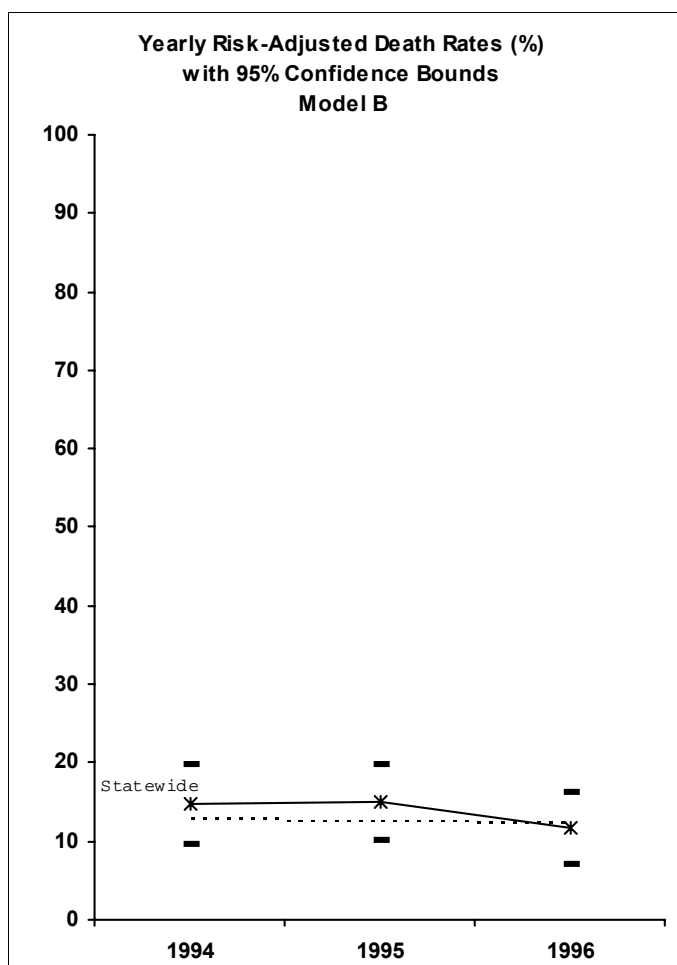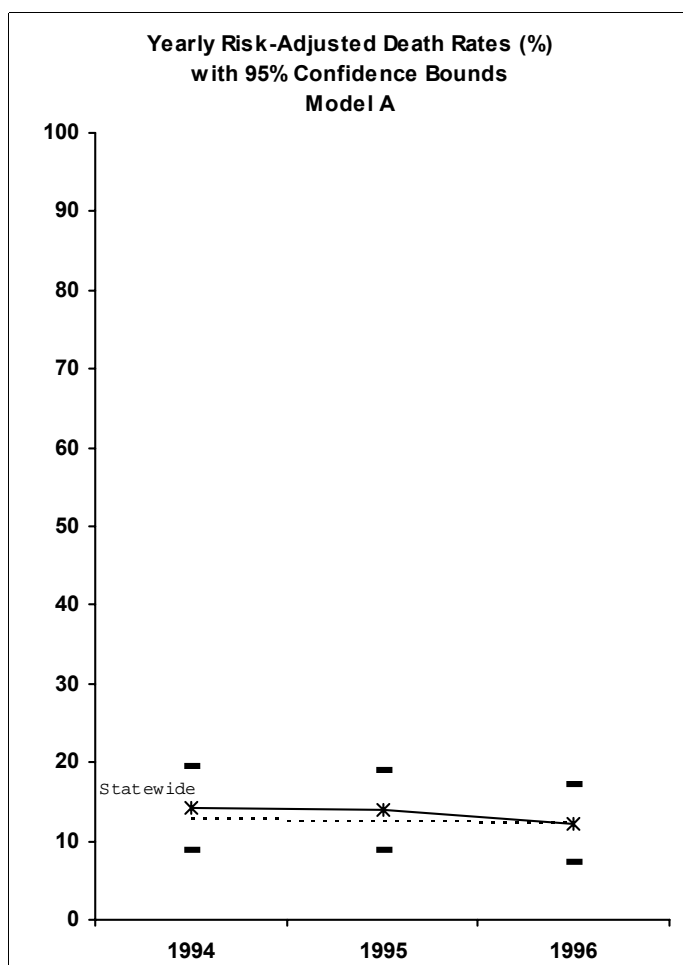
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Citrus Valley Med Ctr, Queen of the Valley Campus

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	588	63	61.3	7.0	10.7	10.4	13.1	10.2	15.9	0.427
	1994	13.0	212	27	25.1	4.5	12.7	11.8	13.9	9.4	18.5	0.369
	1995	12.8	187	18	18.8	3.9	9.6	10.0	12.3	7.0	17.5	0.484
	1996	12.3	189	18	17.4	3.8	9.5	9.2	12.7	7.5	18.0	0.482
Model B	All Years	12.7	587	63	60.3	6.4	10.7	10.3	13.3	10.6	15.9	0.360
	1994	12.9	211	27	24.2	4.1	12.8	11.5	14.4	10.2	18.7	0.280
	1995	12.8	187	18	18.9	3.6	9.6	10.1	12.2	7.4	17.0	0.466
	1996	12.4	189	18	17.2	3.3	9.5	9.1	12.9	8.3	17.6	0.454
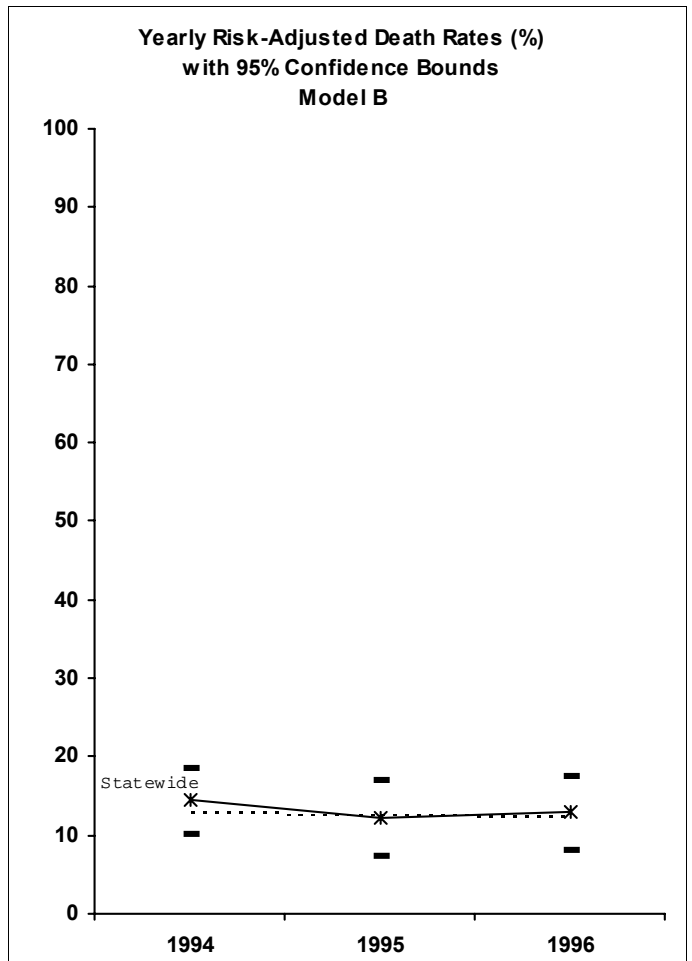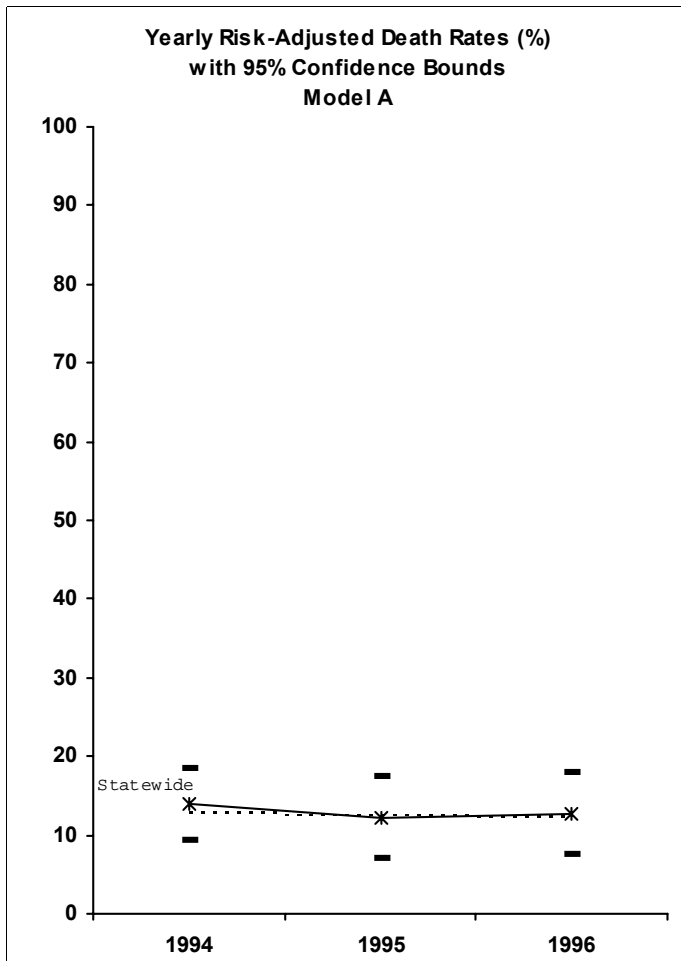
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: City of Hope National Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	9	2	1.3	1.0	22.2	14.9	18.9	1.2	36.6	0.406
	1994	13.0	1	0	0.1	0.3	0.0	8.9	0.0	0.0	81.4	0.911
	1995	12.8	5	2	1.0	0.8	40.0	19.9	25.7	6.3	45.1	0.250
	1996	12.3	3	0	0.3	0.5	0.0	8.7	0.0	0.0	45.2	0.761
Model B	All Years	12.7	9	2	1.4	0.8	22.2	15.4	18.4	3.1	33.7	0.414
	1994	12.9	1	0	0.0	0.2	0.0	4.3	0.0	0.0	100.0	0.957
	1995	12.8	5	2	1.1	0.7	40.0	21.7	23.6	7.9	39.3	0.258
	1996	12.4	3	0	0.3	0.5	0.0	8.4	0.0	0.0	45.0	0.763
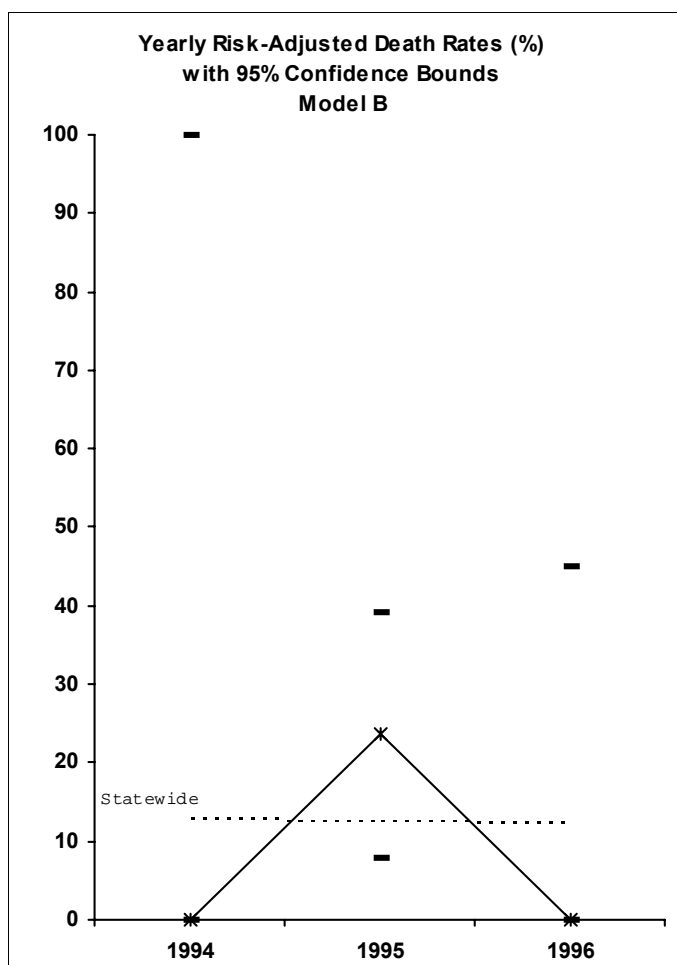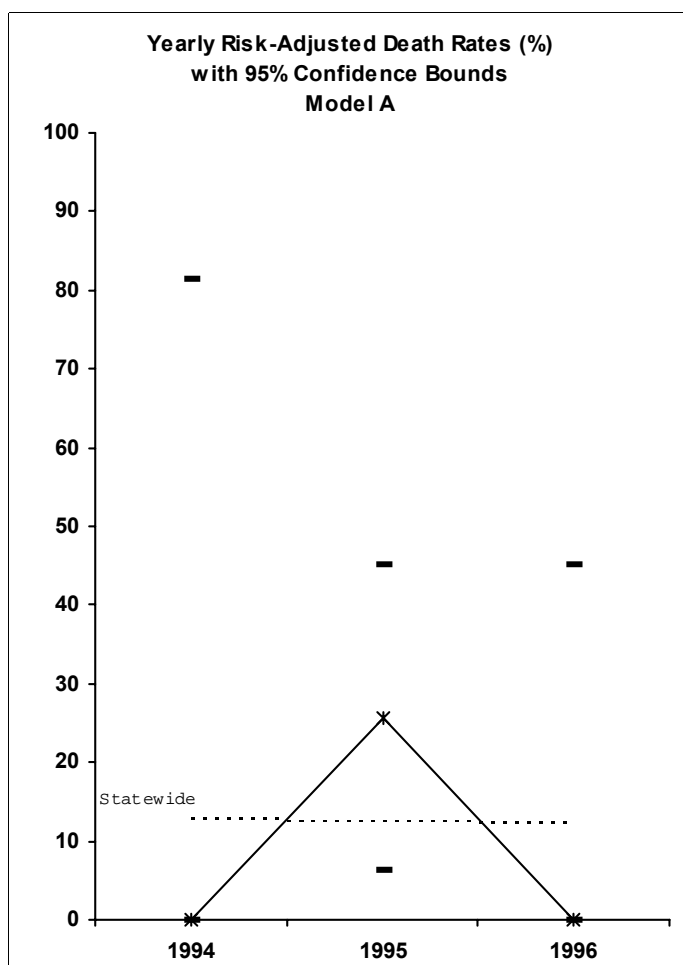
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Coast Plaza Doctors Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	87	19	12.9	3.1	21.8	14.9	18.7	12.7	24.6	0.040
	1994	13.0	24	6	3.6	1.7	25.0	15.1	21.5	9.8	33.2	0.131
	1995	12.8	25	7	3.6	1.7	28.0	14.4	24.9	13.2	36.5	0.049
	1996	12.3	38	6	5.7	2.0	15.8	15.0	13.0	4.5	21.4	0.526
Model B	All Years	12.7	86	19	14.5	2.9	22.1	16.9	16.6	11.7	21.5	0.084
	1994	12.9	24	6	3.4	1.5	25.0	14.1	23.0	11.6	34.3	0.084
	1995	12.8	24	7	4.3	1.6	29.2	17.8	21.0	11.8	30.3	0.079
	1996	12.4	38	6	6.9	1.9	15.8	18.1	10.8	4.2	17.3	0.427
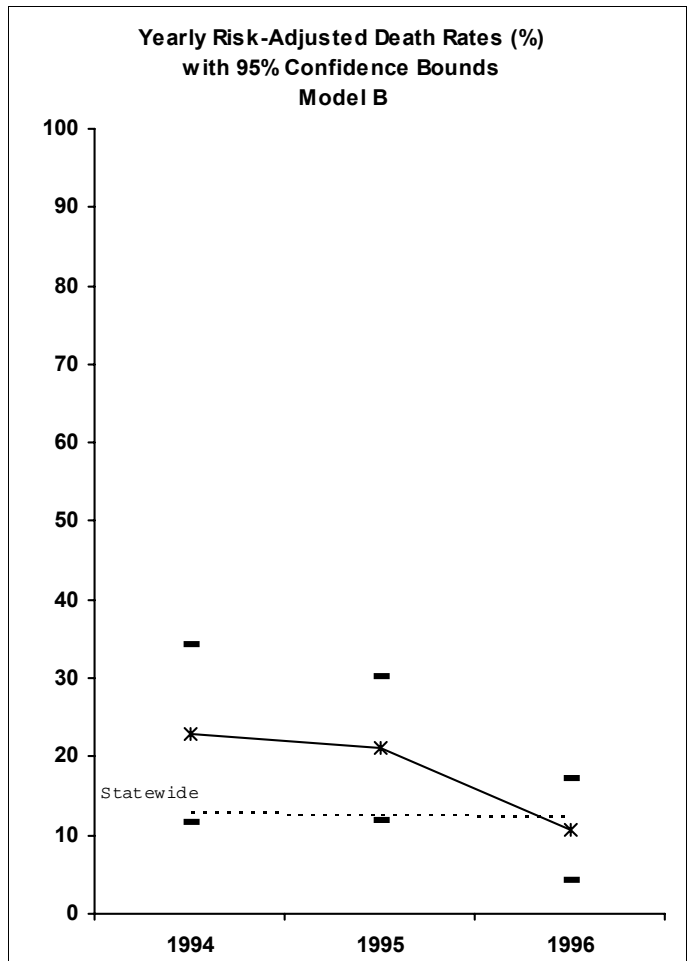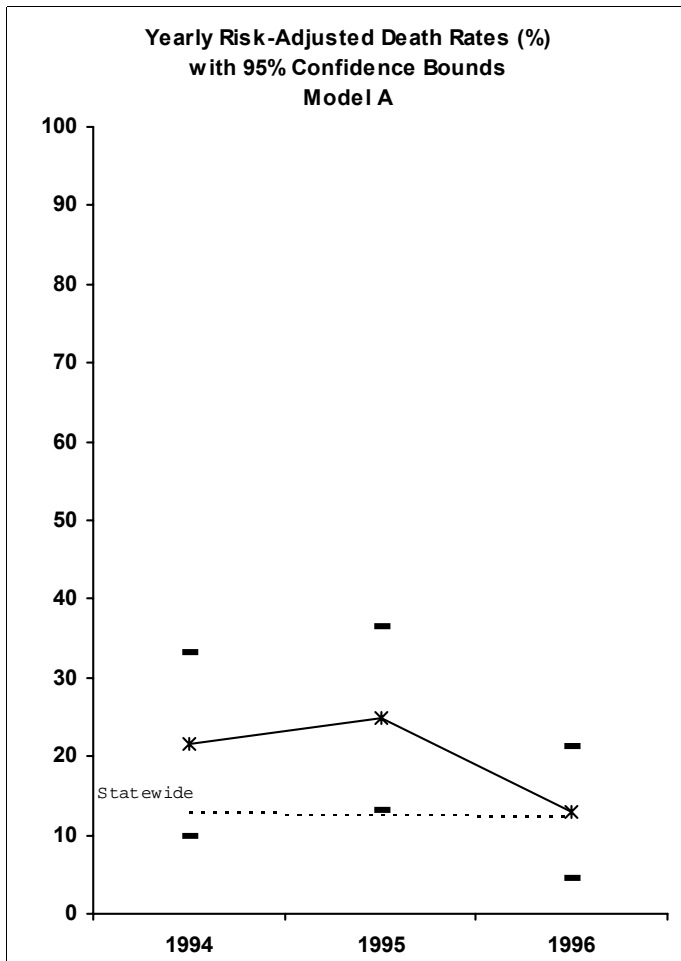
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Columbia West Hills Medical Center												
Model A	All Years	12.7	401	47	49.5	6.2	11.7	12.3	12.1	9.0	15.2	0.380
	1994	13.0	113	14	15.5	3.4	12.4	13.8	11.7	6.0	17.3	0.390
	1995	12.8	149	20	16.7	3.6	13.4	11.2	15.3	9.9	20.8	0.214
	1996	12.3	139	13	17.2	3.6	9.4	12.4	9.3	4.2	14.4	0.151
Model B	All Years	12.7	401	47	50.4	5.7	11.7	12.6	11.8	9.0	14.7	0.309
	1994	12.9	113	14	15.6	3.1	12.4	13.8	11.6	6.5	16.7	0.371
	1995	12.8	149	20	16.9	3.3	13.4	11.4	15.1	10.2	20.1	0.216
	1996	12.4	139	13	17.9	3.4	9.4	12.9	9.0	4.3	13.6	0.097
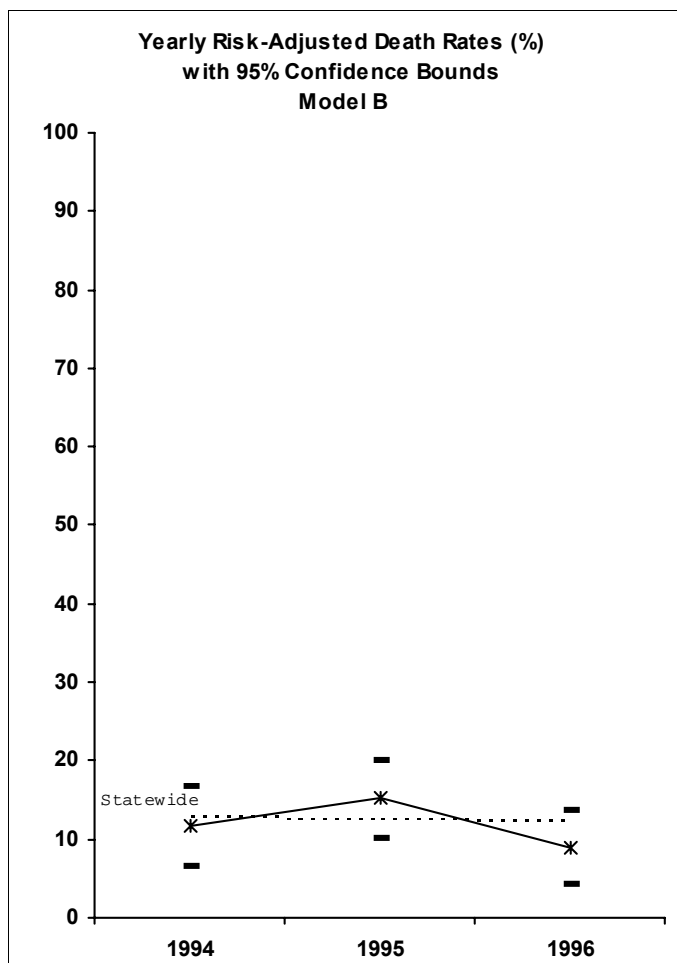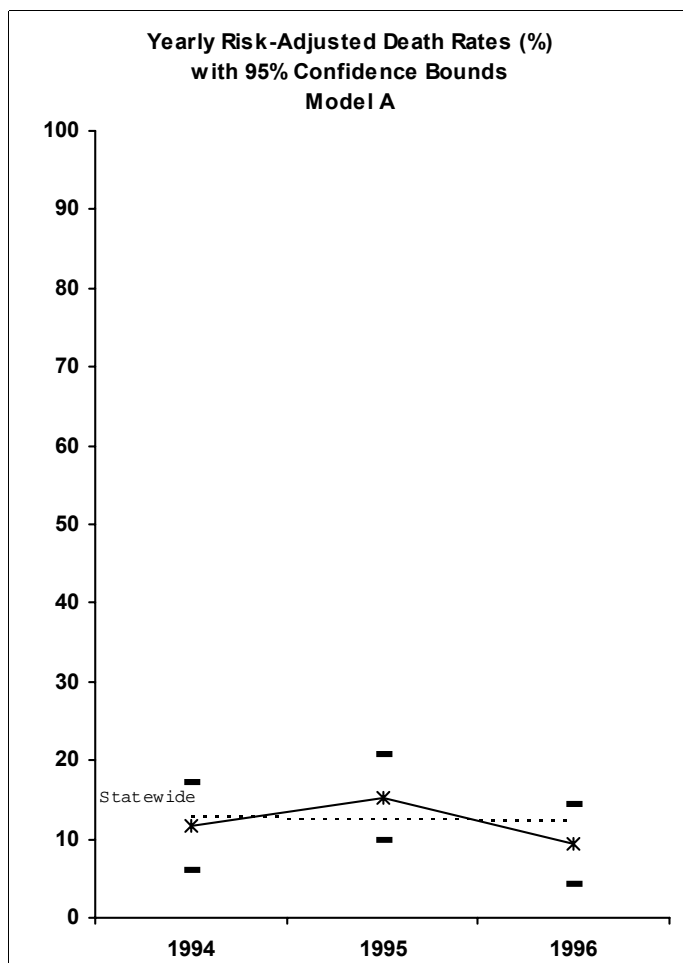
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Los Angeles County: Community & Mission Hospitals-Huntington Park

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	63	11	8.6	2.6	17.5	13.7	16.2	8.8	23.7	0.227
	1994	13.0	23	4	2.7	1.5	17.4	11.6	19.4	5.3	33.4	0.271
	1995	12.8	19	5	2.8	1.4	26.3	14.9	22.6	10.0	35.2	0.122
	1996	12.3	21	2	3.1	1.6	9.5	14.8	7.9	0.0	20.1	0.371
Model B	All Years	12.7	63	11	9.9	2.5	17.5	15.7	14.1	7.8	20.4	0.394
	1994	12.9	23	4	2.5	1.4	17.4	10.9	20.6	6.6	34.6	0.226
	1995	12.8	19	5	4.2	1.5	26.3	22.4	15.1	6.5	23.7	0.419
	1996	12.4	21	2	3.1	1.5	9.5	14.9	7.9	0.0	19.4	0.351
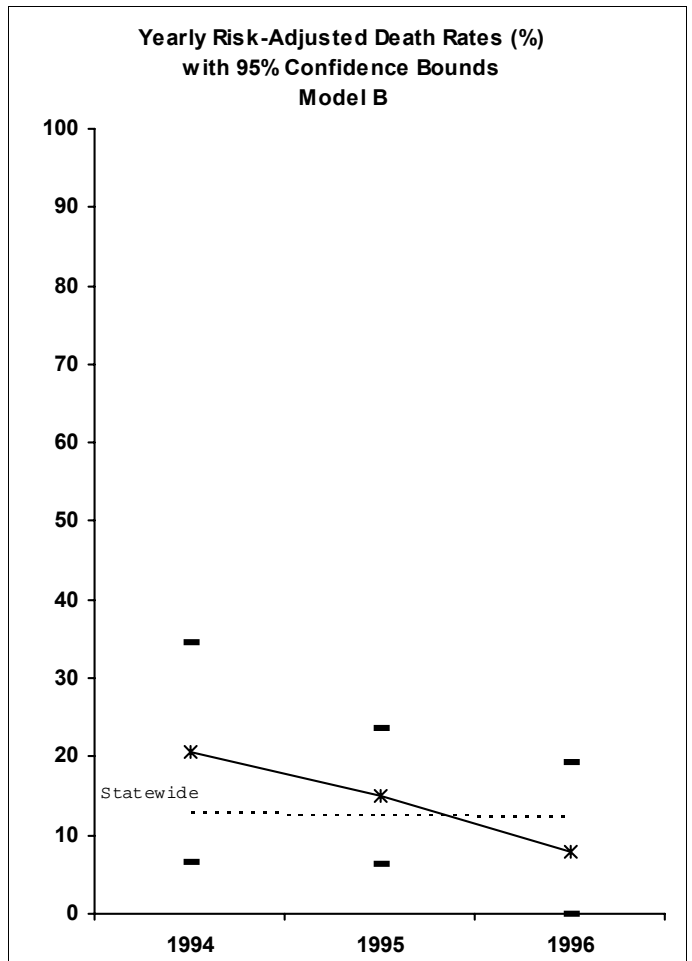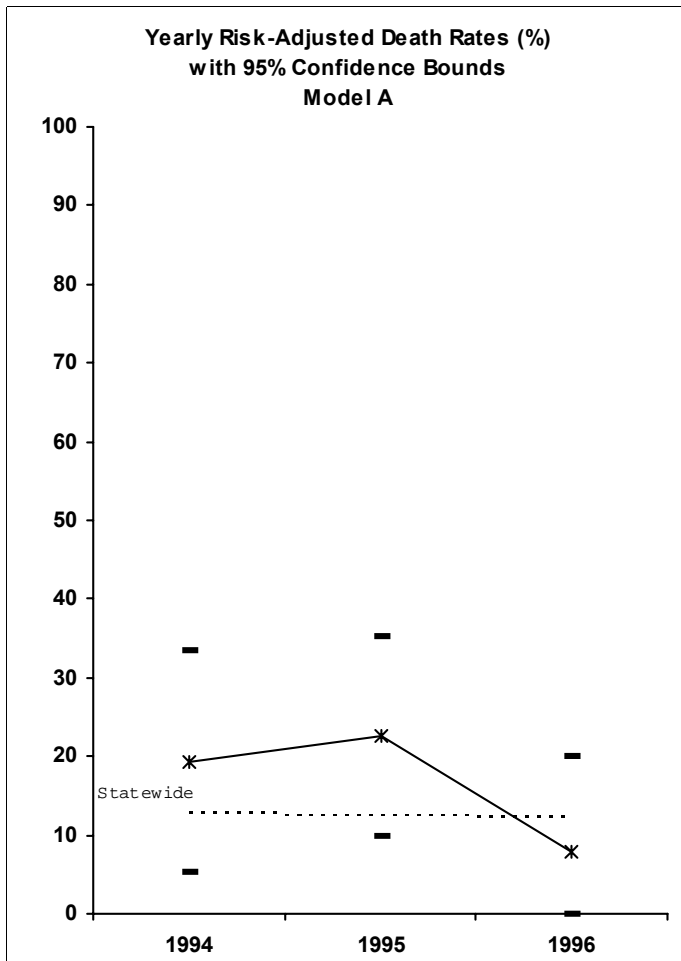
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Los Angeles County: Community Hospital of Gardena

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	17	1	2.3	1.3	5.9	13.4	5.6	0.0	20.1	0.298
	1994	13.0	5	1	0.6	0.7	20.0	11.6	22.3	0.0	52.6	0.473
	1995	12.8	9	0	1.4	1.0	0.0	15.6	0.0	0.0	18.2	0.193
	1996	12.3	3	0	0.3	0.5	0.0	9.9	0.0	0.0	40.7	0.723
Model B	All Years	12.7	17	1	3.0	1.3	5.9	17.8	4.2	0.0	15.0	0.114
	1994	12.9	5	1	1.1	0.8	20.0	22.0	11.8	0.0	31.0	0.701
	1995	12.8	9	0	1.0	0.9	0.0	11.0	0.0	0.0	22.4	0.327
	1996	12.4	3	0	0.9	0.5	0.0	31.4	0.0	0.0	13.0	0.158
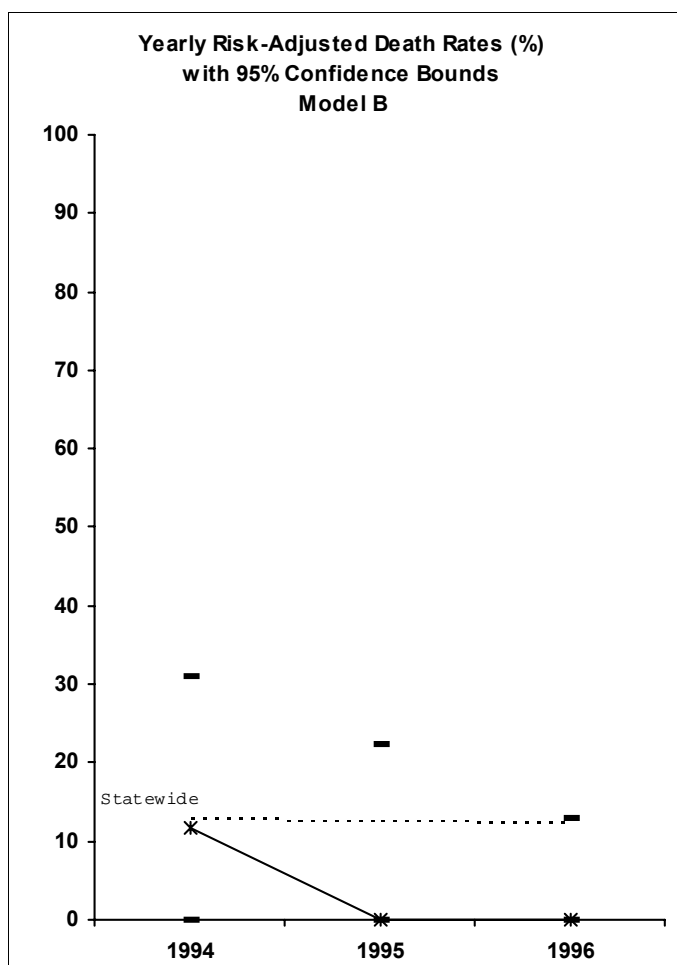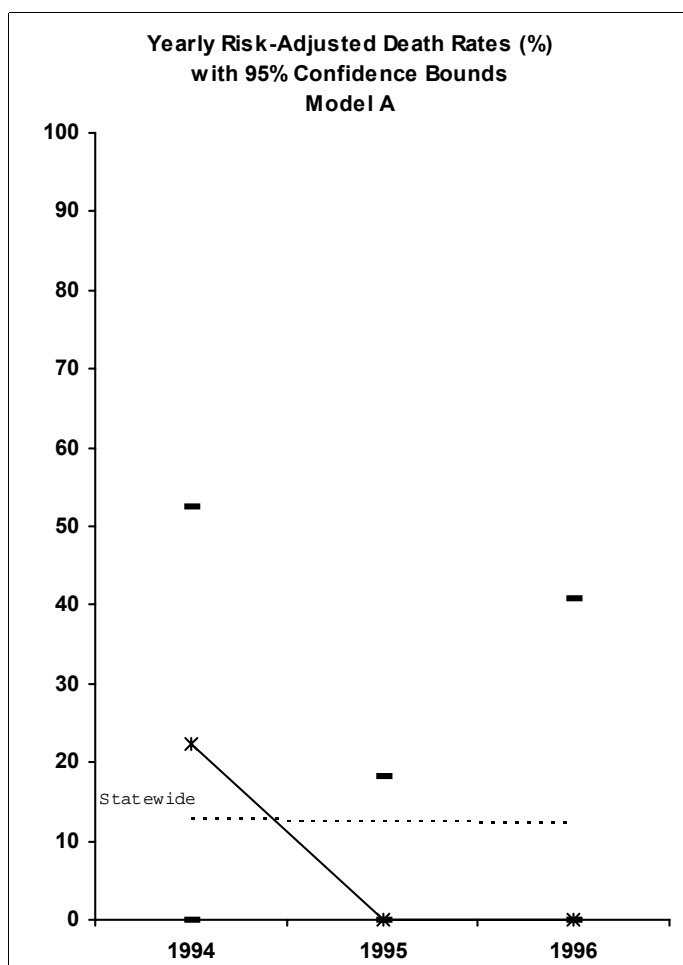
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Covina Valley Community Hospital											
		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	20	6	2.0	1.3	30.0	9.8	38.9	22.9	54.9	0.007
	1994	13.0	3	1	0.2	0.5	33.3	7.7	56.2	6.1	100.0	0.216
	1995	12.8	6	1	0.8	0.8	16.7	13.0	16.4	0.0	41.1	0.595
	1996	12.3	11	4	1.0	0.9	36.4	8.6	51.9	29.2	74.6	0.007
Model B	All Years	12.7	20	6	1.4	1.1	30.0	6.8	56.3	36.4	76.3	0.001
	1994	12.9	3	1	0.2	0.4	33.3	5.1	84.2	22.1	100.0	0.148
	1995	12.8	6	1	0.5	0.6	16.7	7.9	27.1	0.0	60.3	0.407
	1996	12.4	11	4	0.7	0.8	36.4	6.6	68.0	41.4	94.7	0.003
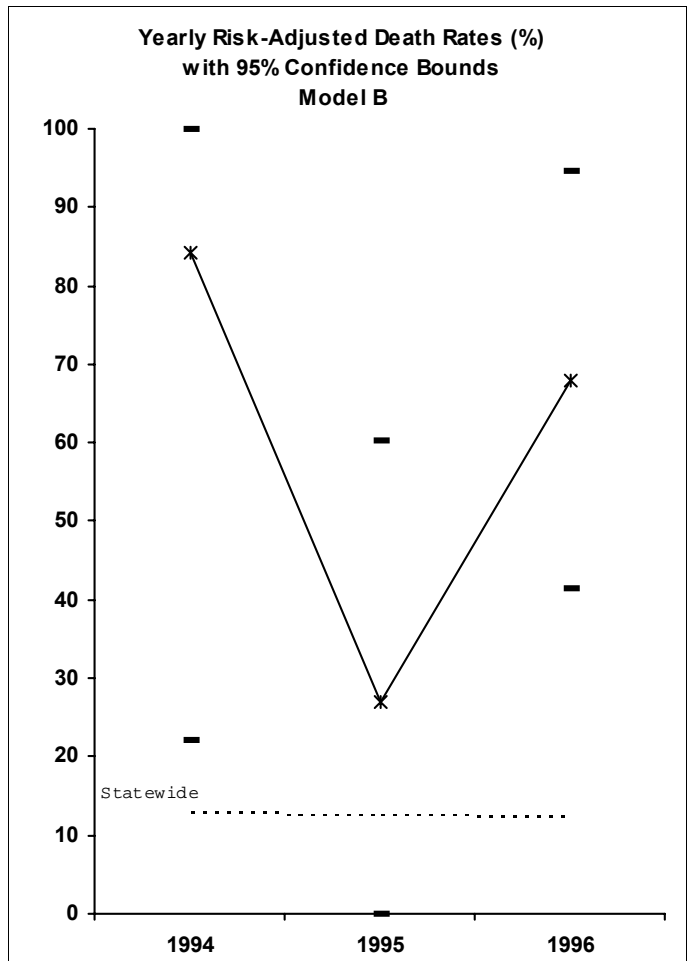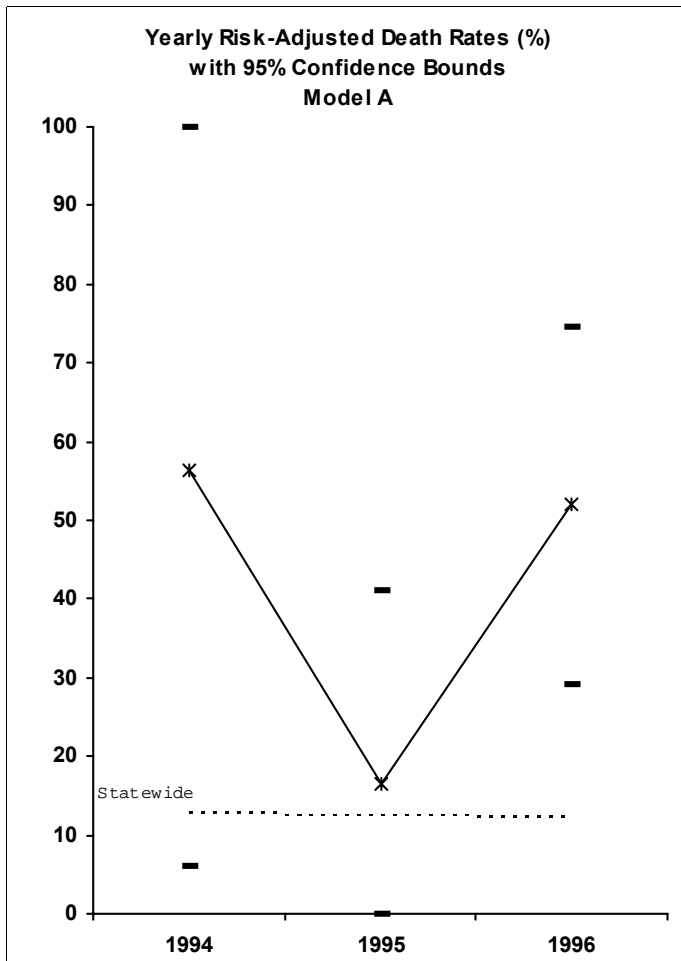
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Daniel Freeman Marina Hospital‡

| | | Statewide Death Rate (%) | Number of Cases Included | Number of Observed Deaths | Number of Expected Deaths | Standard Deviation of Observed Deaths | Observed Death Rate (%) | Expected Death Rate (%) | Risk-Adjusted Death Rate (%) | Risk-Adjusted Death Rate 95% Confidence Bounds | | Probability This Rate Occurred by Chance |
										Lower	Upper	
Model A	All Years	12.7	343	50	60.0	6.5	14.6	17.5	10.6	7.9	13.3	0.070
	1994	13.0	138	13	23.4	4.1	9.4	17.0	7.2	2.8	11.6	0.005
	1995	12.8	107	17	21.1	3.8	15.9	19.7	10.3	5.7	14.9	0.175
	1996	12.3	98	20	15.5	3.3	20.4	15.8	15.9	10.7	21.1	0.117
Model B	All Years	12.7	341	50	62.5	6.1	14.7	18.3	10.2	7.7	12.6	0.023
	1994	12.9	138	13	22.5	3.8	9.4	16.3	7.5	3.2	11.7	0.006
	1995	12.8	105	17	20.8	3.6	16.2	19.8	10.5	6.1	14.8	0.179
	1996	12.4	98	20	19.2	3.2	20.4	19.6	12.9	8.9	16.9	0.453
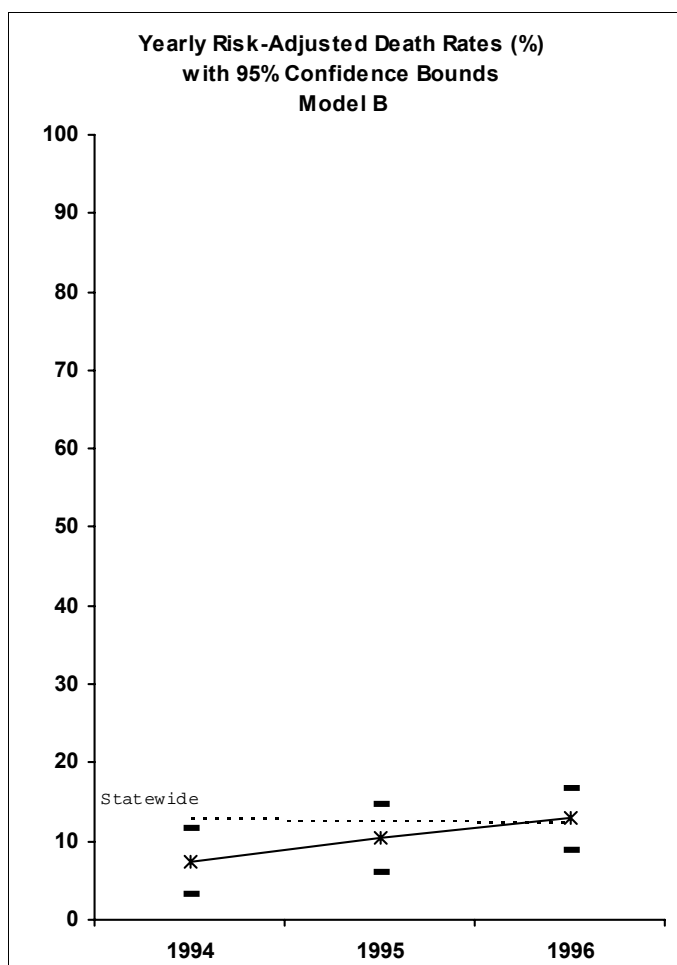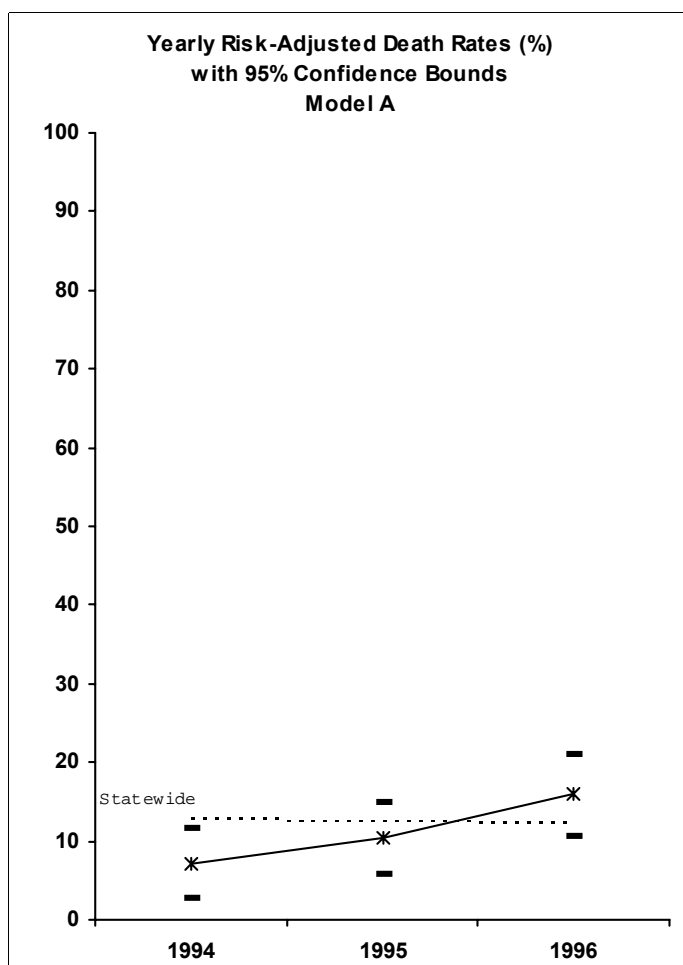
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Daniel Freeman Memorial Hospital‡												
Model A	All Years	12.7	508	67	68.5	7.3	13.2	13.5	12.4	9.8	15.1	0.452
	1994	13.0	185	26	25.1	4.4	14.1	13.6	13.4	9.0	17.8	0.459
	1995	12.8	162	17	19.6	3.9	10.5	12.1	11.1	6.1	16.0	0.297
	1996	12.3	161	24	23.7	4.3	14.9	14.7	12.5	8.2	16.9	0.508
Model B	All Years	12.7	506	67	63.6	6.4	13.2	12.6	13.4	10.9	15.9	0.319
	1994	12.9	183	26	24.7	3.8	14.2	13.5	13.6	9.6	17.5	0.413
	1995	12.8	162	17	18.6	3.4	10.5	11.5	11.7	7.1	16.3	0.380
	1996	12.4	161	24	20.2	3.8	14.9	12.6	14.7	10.1	19.3	0.194
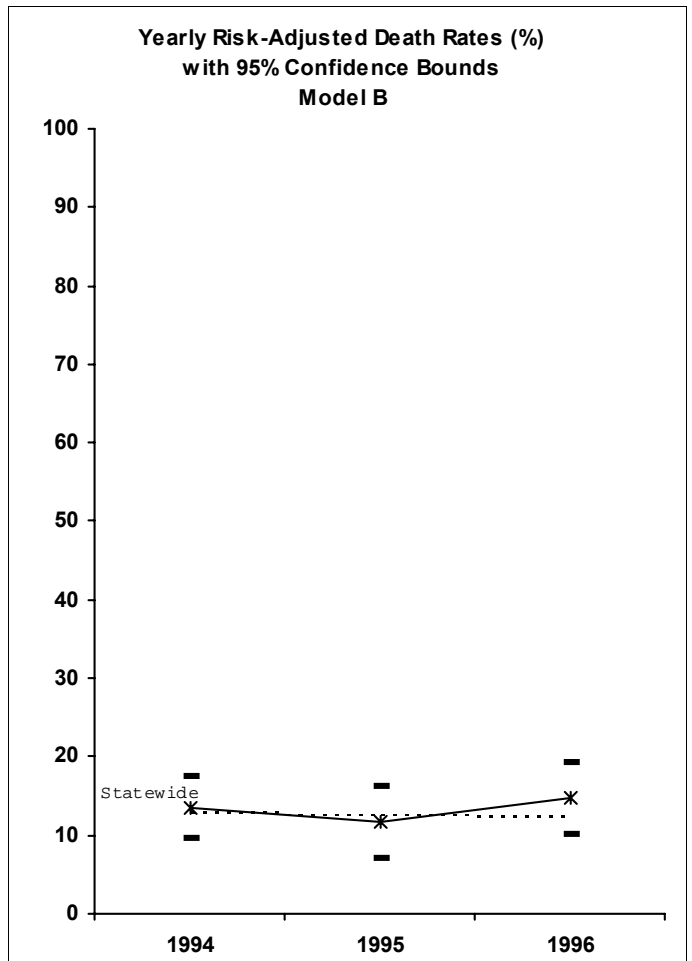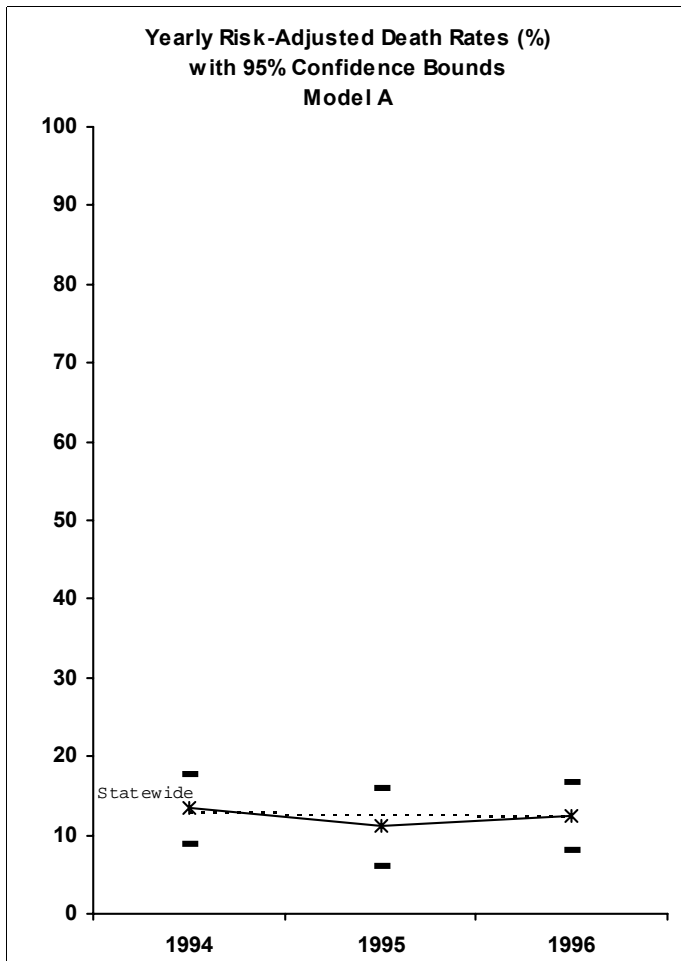
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Desert Palms Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	165	30	19.0	3.9	18.2	11.5	20.1	15.0	25.2	0.005
	1994	13.0	74	12	7.9	2.5	16.2	10.7	19.6	11.5	27.7	0.083
	1995	12.8	74	16	9.3	2.7	21.6	12.6	22.0	14.8	29.2	0.014
	1996	12.3	17	2	1.7	1.2	11.8	10.1	14.3	0.0	31.1	0.535
Model B	All Years	12.7	165	30	25.5	3.8	18.2	15.5	15.0	11.2	18.7	0.148
	1994	12.9	74	12	11.9	2.6	16.2	16.0	13.1	7.5	18.6	0.548
	1995	12.8	74	16	11.3	2.6	21.6	15.2	18.2	12.5	23.9	0.052
	1996	12.4	17	2	2.3	1.2	11.8	13.8	10.6	0.0	22.7	0.573
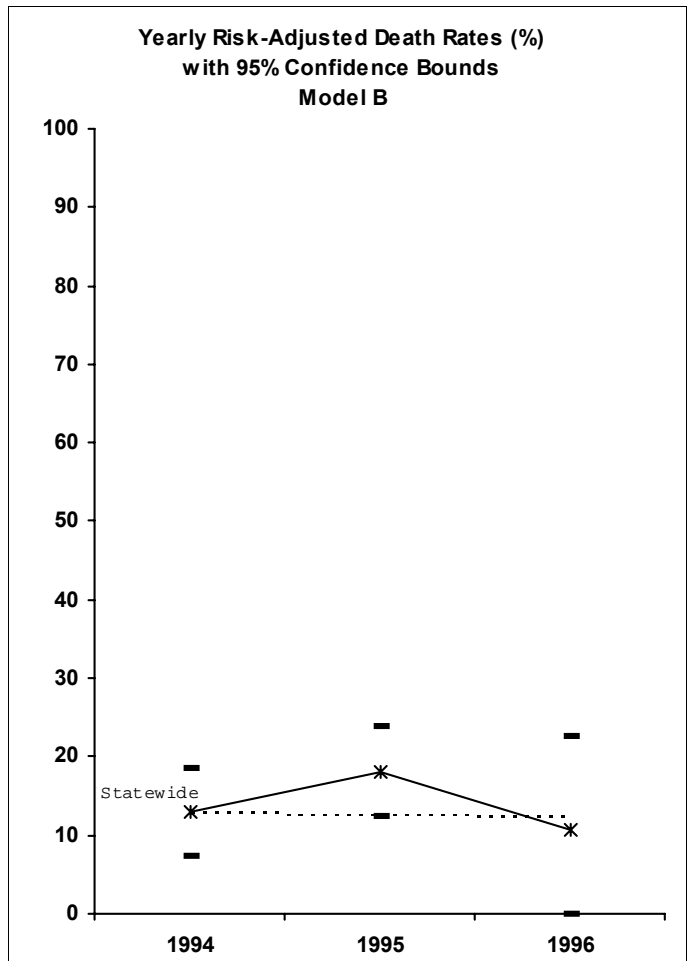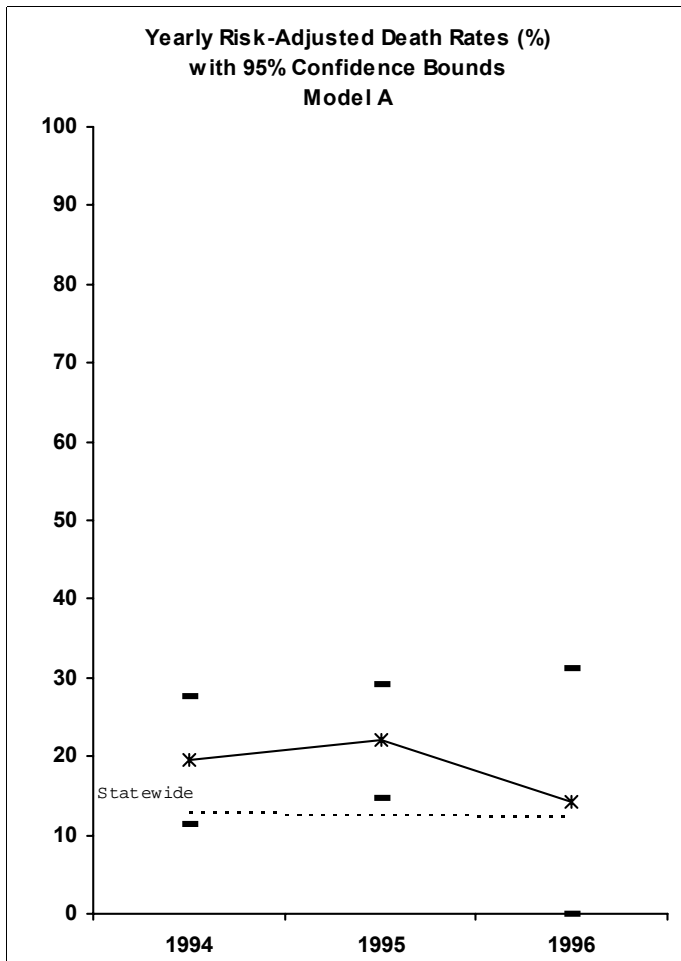
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Doctors Hospital of West Covina

| | | Statewide Death Rate (%) | Number of Cases Included | Number of Observed Deaths | Number of Expected Deaths | Standard Deviation of Observed Deaths | Observed Death Rate (%) | Expected Death Rate (%) | Risk-Adjusted Death Rate (%) | Risk-Adjusted Death Rate 95% Confidence Bounds | | Probability This Rate Occurred by Chance |
										Lower	Upper	
Model A	All Years	12.7	3	0	0.5	0.6	0.0	15.3	0.0	0.0	32.4	0.592
	1994	13.0	1	0	0.1	0.3	0.0	9.0	0.0	0.0	80.9	0.910
	1995	12.8	0									
	1996	12.3	2	0	0.4	0.5	0.0	18.5	0.0	0.0	34.3	0.651
Model B	All Years	12.7	3	0	0.4	0.6	0.0	14.2	0.0	0.0	32.9	0.609
	1994	12.9	1	0	0.1	0.3	0.0	7.2	0.0	0.0	90.9	0.928
	1995	12.8	0									
	1996	12.4	2	0	0.4	0.5	0.0	17.7	0.0	0.0	34.2	0.657
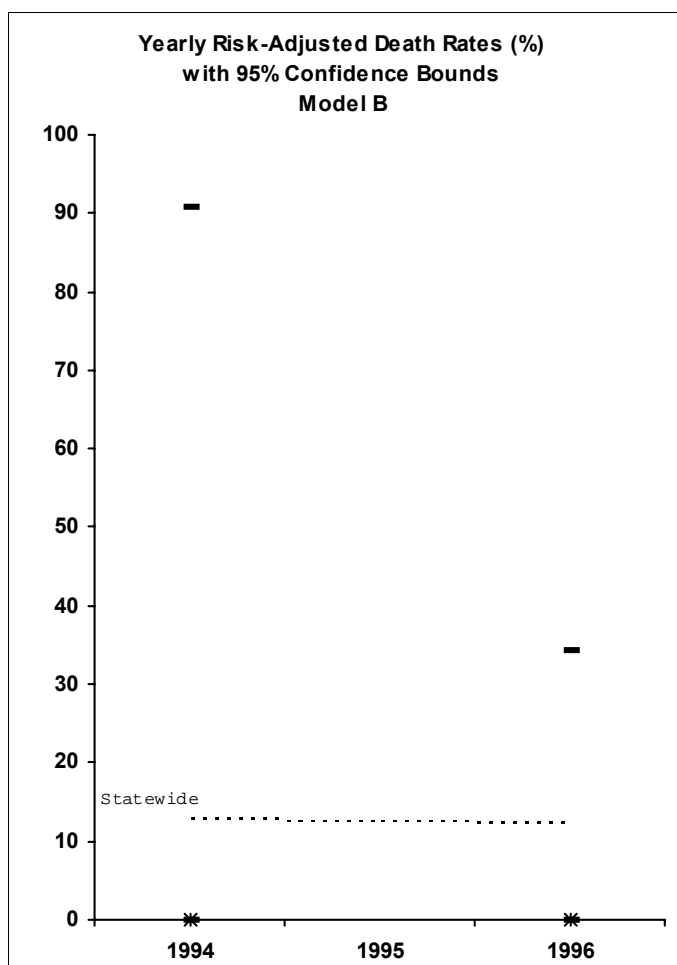
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B
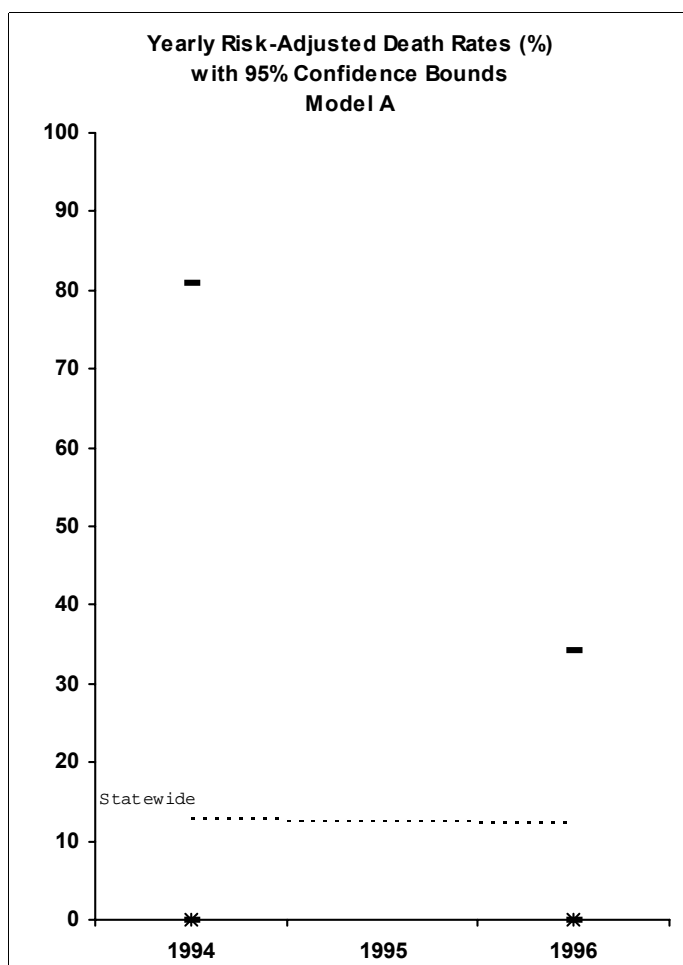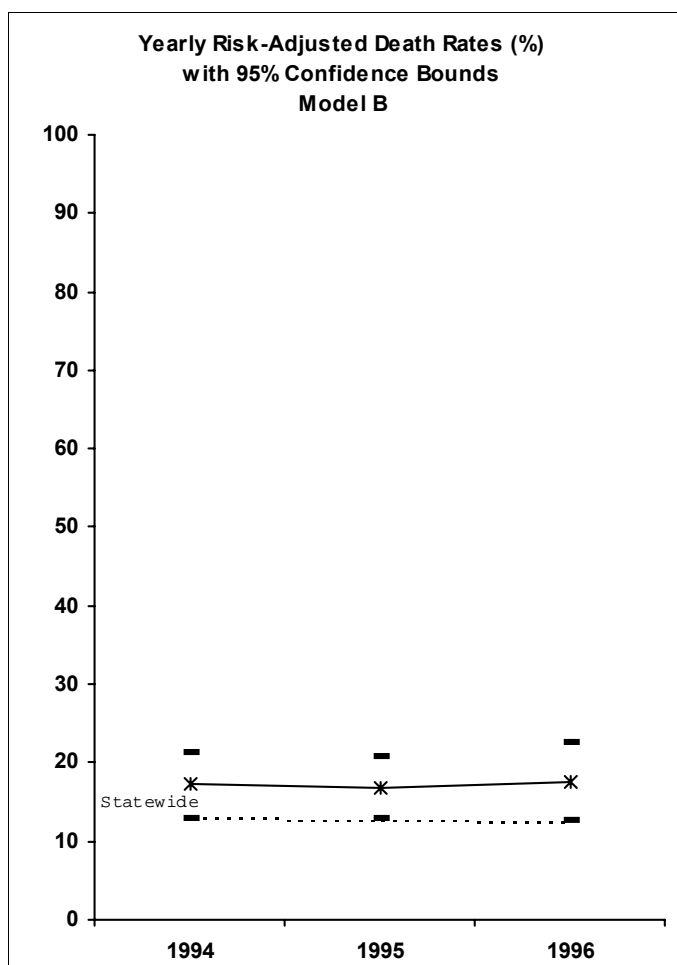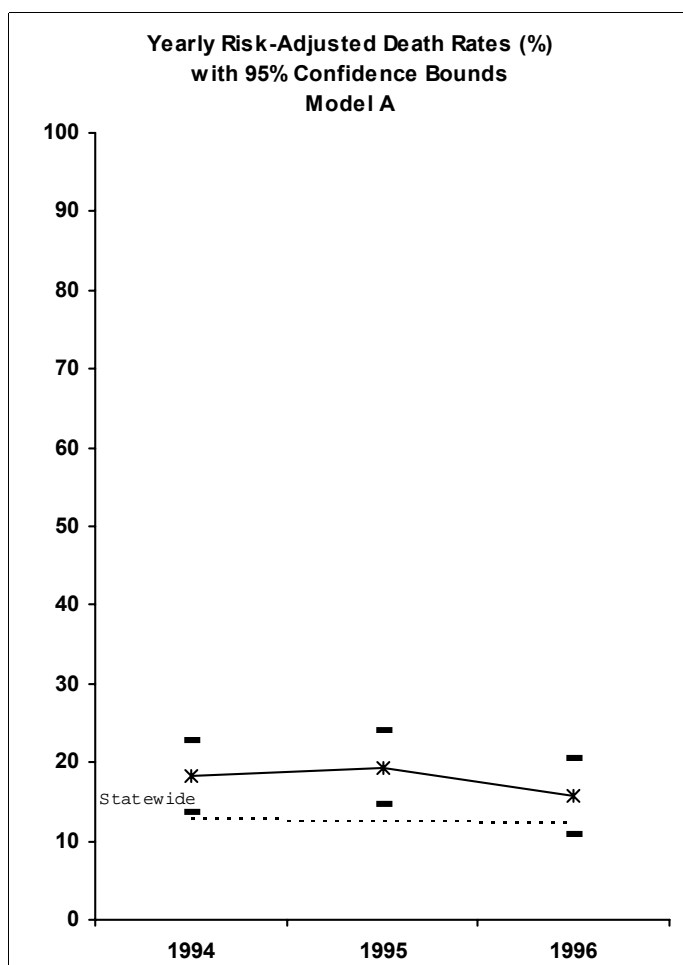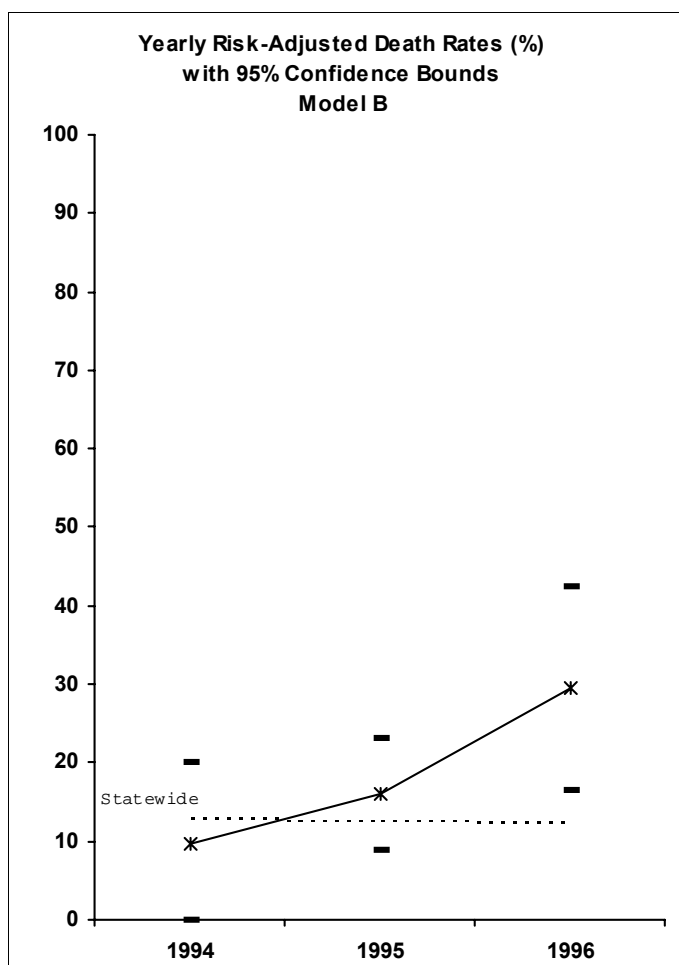
‡ Hospital sent comment letter

Office of Statewide Health Planning and Development
California Hospital Outcomes Project

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Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Downey Community Hospital‡												
Model A	All Years	12.7	495	91	64.9	7.1	18.4	13.1	17.8	15.1	20.6	0.000
	1994	13.0	166	32	22.7	4.2	19.3	13.7	18.3	13.6	23.0	0.021
	1995	12.8	173	34	22.5	4.2	19.7	13.0	19.3	14.7	24.0	0.006
	1996	12.3	156	25	19.7	3.9	16.0	12.6	15.7	10.9	20.5	0.109
Model B	All Years	12.7	424	85	63.1	6.2	20.0	14.9	17.1	14.6	19.6	0.000
	1994	12.9	166	32	24.0	3.9	19.3	14.5	17.2	13.1	21.3	0.031
	1995	12.8	165	33	25.1	3.9	20.0	15.2	16.9	12.9	20.8	0.032
	1996	12.4	93	20	14.0	2.9	21.5	15.1	17.6	12.6	22.7	0.033

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: East Los Angeles Doctors Hospital											
		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	67	15	9.6	2.7	22.4	14.3	19.9	13.0	26.8	0.037
	1994	13.0	29	3	4.2	1.8	10.3	14.4	9.3	0.0	19.9	0.365
	1995	12.8	24	7	3.9	1.7	29.2	16.2	23.0	12.2	33.8	0.065
	1996	12.3	14	5	1.5	1.1	35.7	10.8	41.0	23.0	58.9	0.009
Model B	All Years	12.7	67	15	11.7	2.5	22.4	17.5	16.3	10.9	21.7	0.136
	1994	12.9	29	3	4.0	1.6	10.3	13.9	9.6	0.0	20.0	0.392
	1995	12.8	24	7	5.6	1.6	29.2	23.3	16.0	8.9	23.1	0.272
	1996	12.4	14	5	2.1	1.1	35.7	15.0	29.5	16.6	42.4	0.019
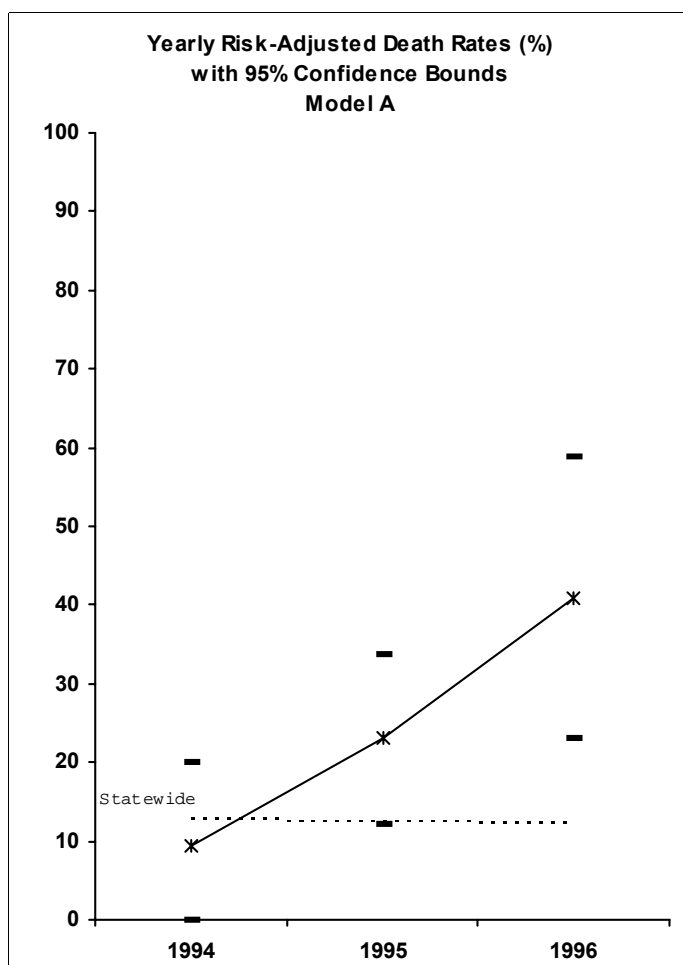
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Encino Tarzana Regional Medical Center-Encino‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	81	17	14.6	3.2	21.0	18.0	14.8	9.3	20.3	0.269
	1994	Excluded										
	1995	12.8	50	9	8.3	2.4	18.0	16.6	13.9	6.6	21.2	0.452
	1996	12.3	31	8	6.3	2.1	25.8	20.3	15.7	7.6	23.9	0.274
Model B	All Years	12.7	81	17	15.4	3.0	21.0	19.0	14.0	9.1	19.0	0.350
	1994	Excluded										
	1995	12.8	50	9	9.2	2.3	18.0	18.4	12.5	6.3	18.8	0.562
	1996	12.4	31	8	6.2	2.0	25.8	19.9	16.0	8.2	23.8	0.247
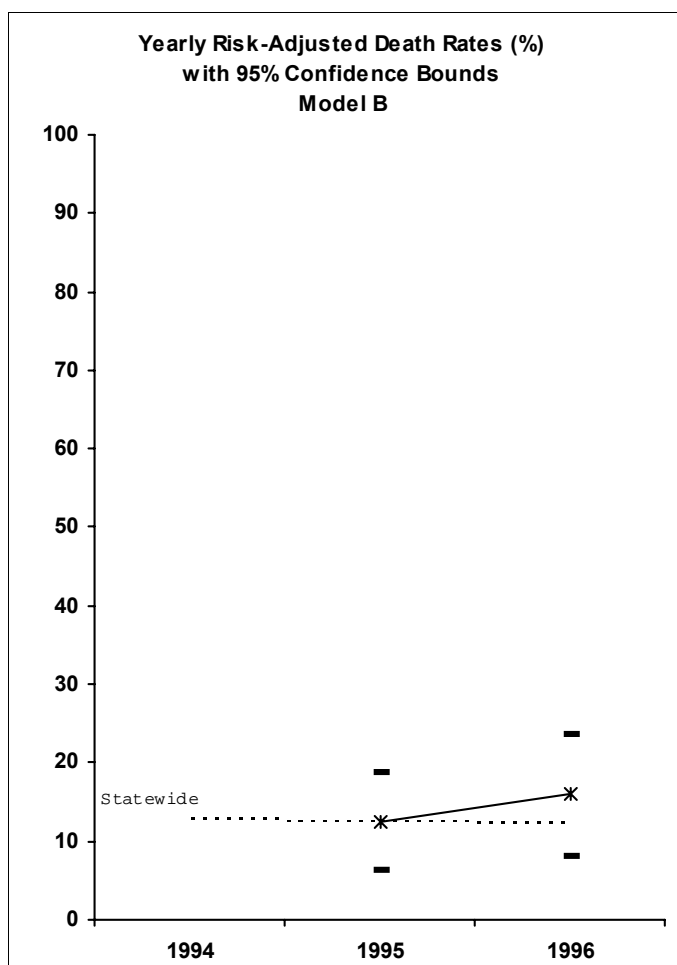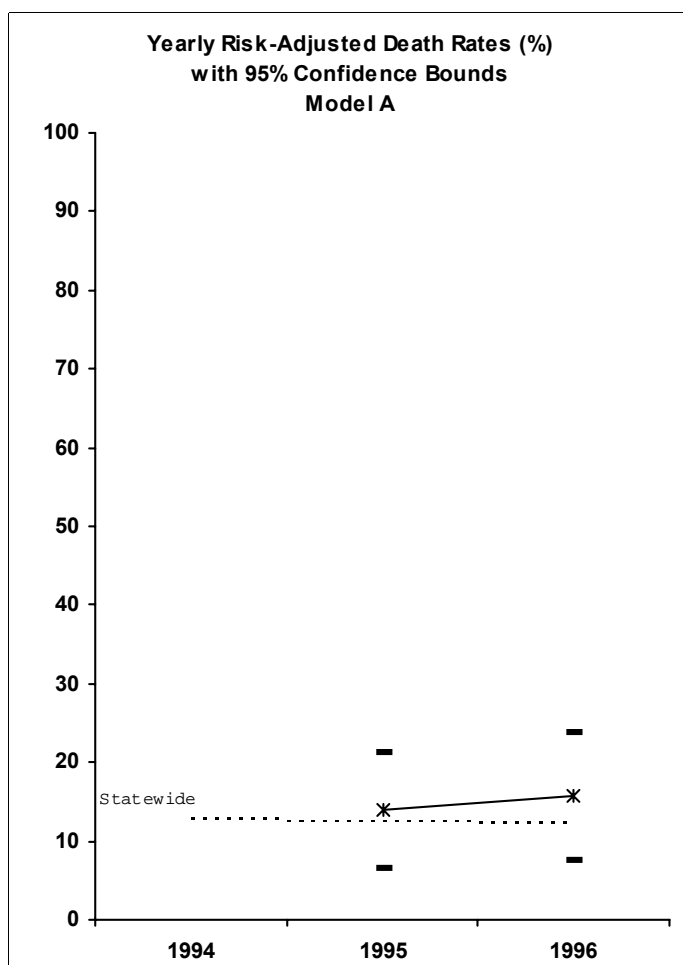
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Encino Tarzana Regional Medical Center-Tarzana‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	400	47	56.3	6.6	11.8	14.1	10.6	7.7	13.5	0.088
	1994	13.0	128	25	17.1	3.6	19.5	13.4	18.9	13.5	24.3	0.025
	1995	12.8	127	14	17.9	3.7	11.0	14.1	10.0	4.8	15.2	0.182
	1996	12.3	145	8	21.3	4.0	5.5	14.7	4.6	0.1	9.2	0.000
Model B	All Years	12.7	400	47	57.7	6.0	11.8	14.4	10.4	7.8	13.0	0.043
	1994	12.9	128	25	18.2	3.3	19.5	14.2	17.8	13.1	22.4	0.032
	1995	12.8	127	14	17.5	3.4	11.0	13.8	10.2	5.4	15.1	0.187
	1996	12.4	145	8	22.0	3.7	5.5	15.2	4.5	0.4	8.6	0.000
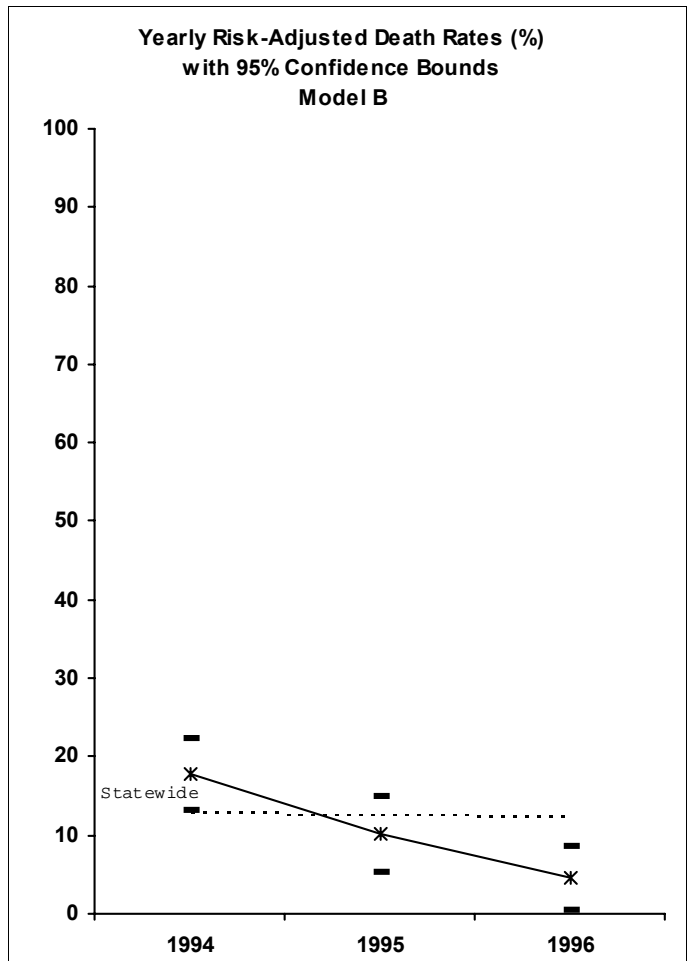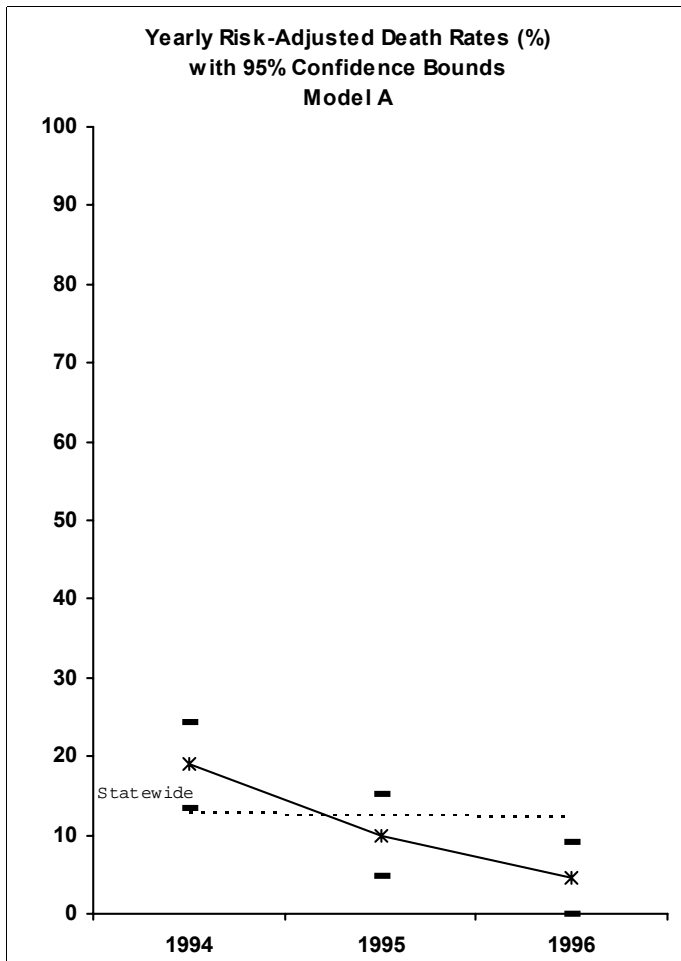
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Foothill Presbyterian Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	262	44	37.1	5.2	16.8	14.2	15.1	11.6	18.6	0.112
	1994	13.0	75	14	10.3	2.8	18.7	13.7	17.7	10.7	24.6	0.126
	1995	12.8	99	17	14.8	3.3	17.2	14.9	14.7	9.2	20.2	0.291
	1996	12.3	88	13	12.0	3.0	14.8	13.7	13.3	7.3	19.4	0.427
Model B	All Years	12.7	259	44	34.2	4.7	17.0	13.2	16.4	12.9	19.8	0.027
	1994	12.9	75	14	10.7	2.7	18.7	14.2	17.0	10.6	23.4	0.146
	1995	12.8	98	17	14.2	2.9	17.3	14.4	15.4	10.3	20.4	0.203
	1996	12.4	86	13	9.3	2.6	15.1	10.9	17.2	10.4	24.0	0.117
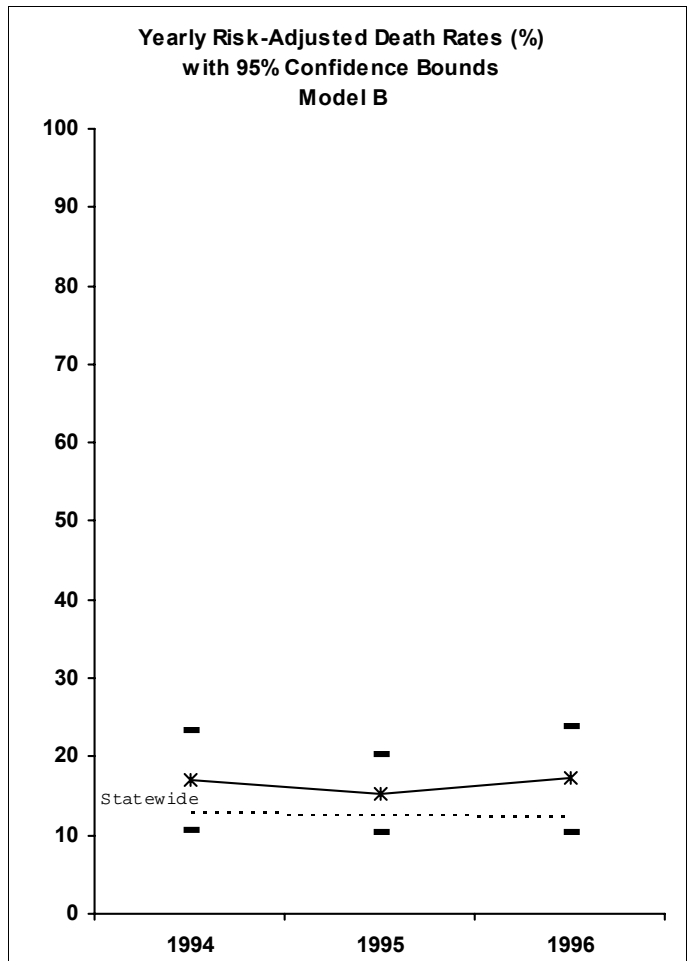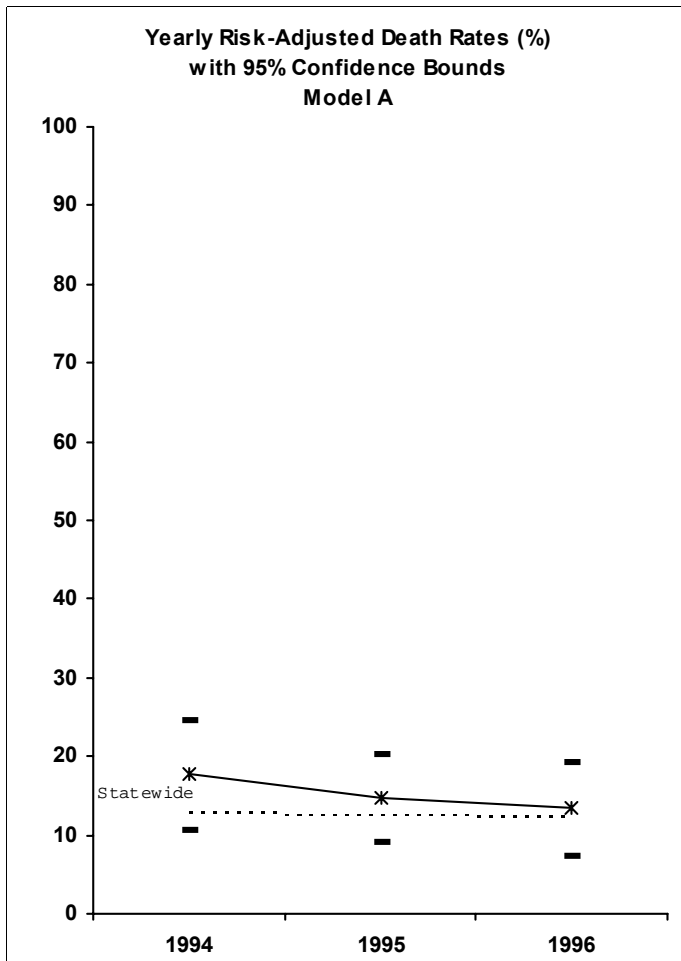
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Garfield Medical Center											
		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	214	31	26.6	4.6	14.5	12.4	14.8	10.5	19.2	0.195
	1994	13.0	78	9	9.6	2.8	11.5	12.3	12.1	4.8	19.4	0.497
	1995	12.8	81	13	9.9	2.8	16.0	12.2	16.8	9.6	23.9	0.177
	1996	12.3	55	9	7.0	2.4	16.4	12.8	15.8	7.6	24.0	0.259
Model B	All Years	12.7	214	31	29.1	4.3	14.5	13.6	13.5	9.8	17.2	0.368
	1994	12.9	78	9	10.6	2.6	11.5	13.5	11.0	4.9	17.2	0.349
	1995	12.8	81	13	11.1	2.7	16.0	13.7	15.0	9.0	21.0	0.293
	1996	12.4	55	9	7.5	2.2	16.4	13.6	14.9	7.7	22.2	0.308

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Glendale Adventist Medical Center												
		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	614	82	88.6	8.2	13.4	14.4	11.8	9.5	14.1	0.231
	1994	13.0	221	24	30.9	4.9	10.9	14.0	10.1	6.0	14.1	0.092
	1995	12.8	213	31	30.3	4.8	14.6	14.2	13.1	9.2	17.0	0.474
	1996	12.3	180	27	27.4	4.5	15.0	15.2	12.2	8.2	16.1	0.520
Model B	All Years	12.7	605	79	92.1	7.5	13.1	15.2	10.9	8.9	12.9	0.045
	1994	12.9	220	24	32.7	4.6	10.9	14.9	9.5	5.9	13.0	0.032
	1995	12.8	206	29	31.3	4.4	14.1	15.2	11.9	8.4	15.4	0.343
	1996	12.4	179	26	28.1	4.1	14.5	15.7	11.5	7.9	15.0	0.357
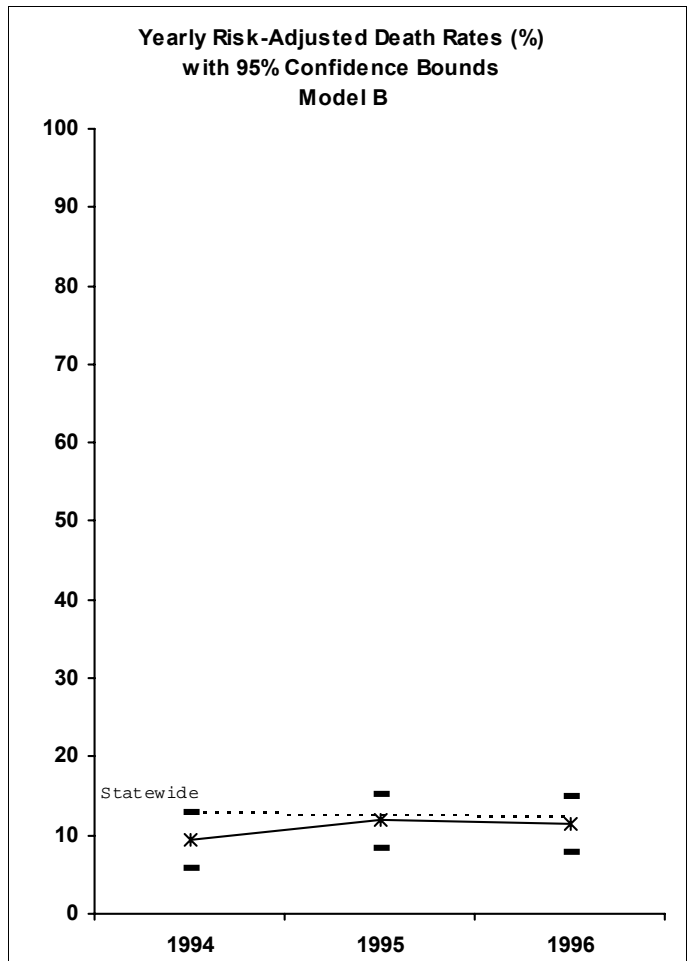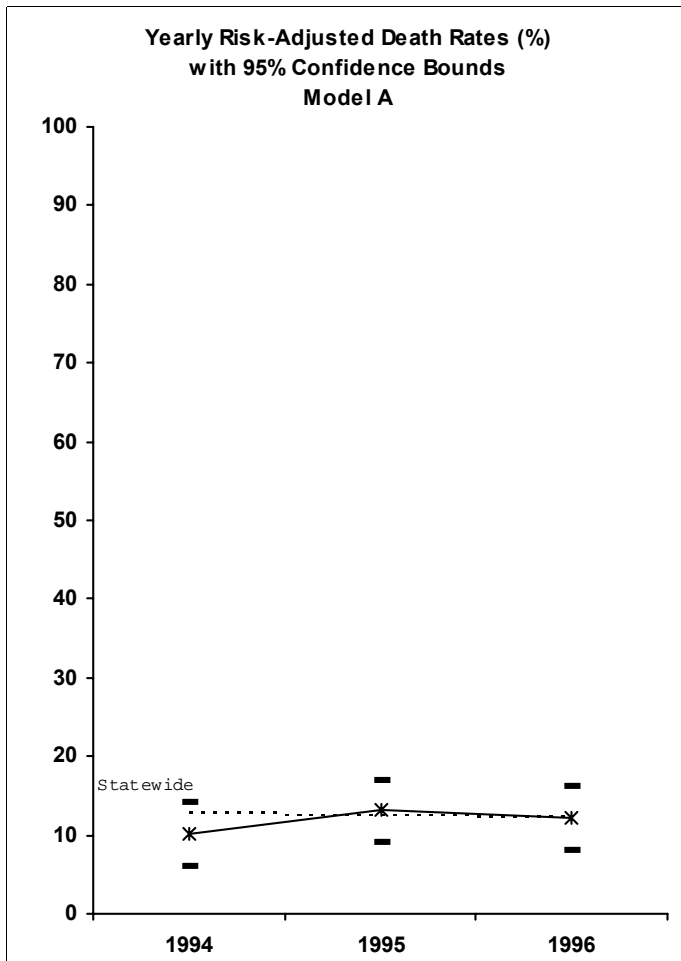
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Glendale Memorial Hospital and Health Center‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	520	62	71.8	7.4	11.9	13.8	11.0	8.4	13.5	0.103
	1994	13.0	188	22	25.9	4.4	11.7	13.8	11.0	6.7	15.4	0.223
	1995	12.8	182	26	24.0	4.3	14.3	13.2	13.9	9.4	18.4	0.354
	1996	12.3	150	14	21.9	4.1	9.3	14.6	7.9	3.4	12.4	0.029
Model B	All Years	12.7	516	62	79.7	6.9	12.0	15.4	9.9	7.7	12.0	0.005
	1994	12.9	186	22	27.3	4.0	11.8	14.7	10.4	6.7	14.1	0.109
	1995	12.8	180	26	28.1	4.1	14.4	15.6	11.9	8.2	15.5	0.353
	1996	12.4	150	14	24.2	3.8	9.3	16.2	7.1	3.3	11.0	0.004
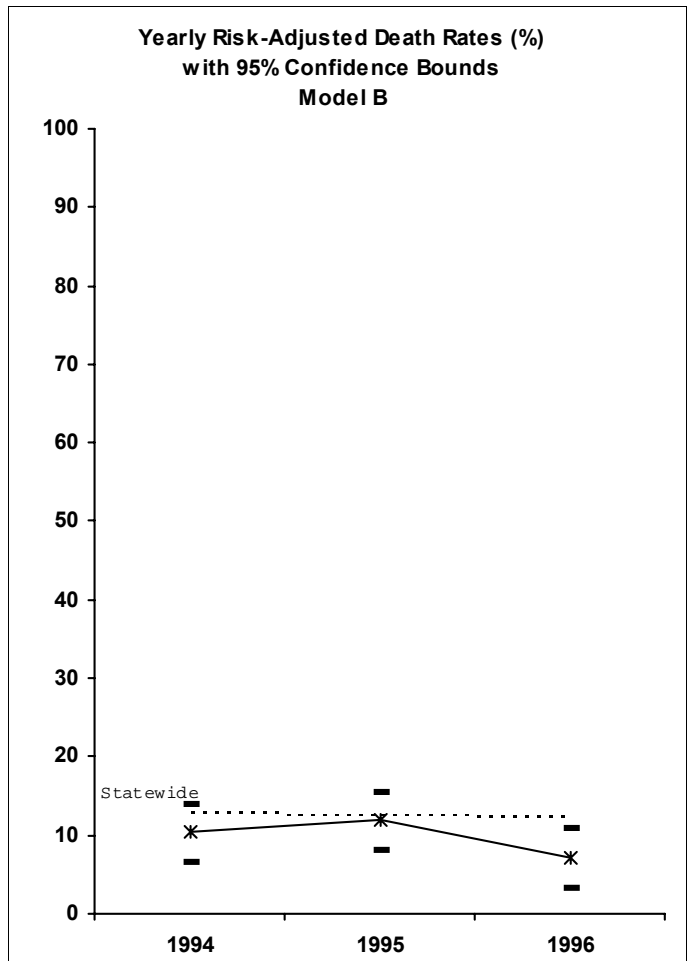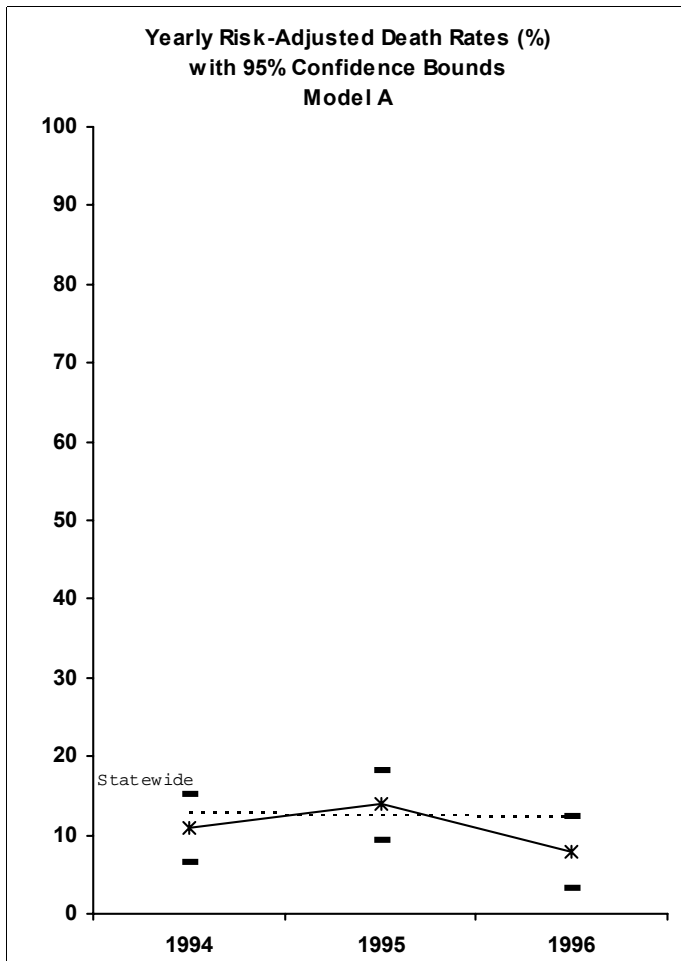
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Good Samaritan Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	320	52	42.2	5.7	16.3	13.2	15.7	12.3	19.0	0.053
	1994	13.0	116	21	17.5	3.6	18.1	15.1	15.6	10.3	20.8	0.199
	1995	12.8	106	16	12.6	3.1	15.1	11.9	16.2	10.0	22.4	0.175
	1996	12.3	98	15	12.1	3.1	15.3	12.4	15.3	9.2	21.4	0.215
Model B	All Years	12.7	320	52	48.0	5.4	16.3	15.0	13.8	10.9	16.6	0.260
	1994	12.9	116	21	18.8	3.4	18.1	16.2	14.5	9.9	19.1	0.299
	1995	12.8	106	16	14.9	3.0	15.1	14.1	13.7	8.6	18.8	0.417
	1996	12.4	98	15	14.3	3.0	15.3	14.6	12.9	7.9	18.0	0.471
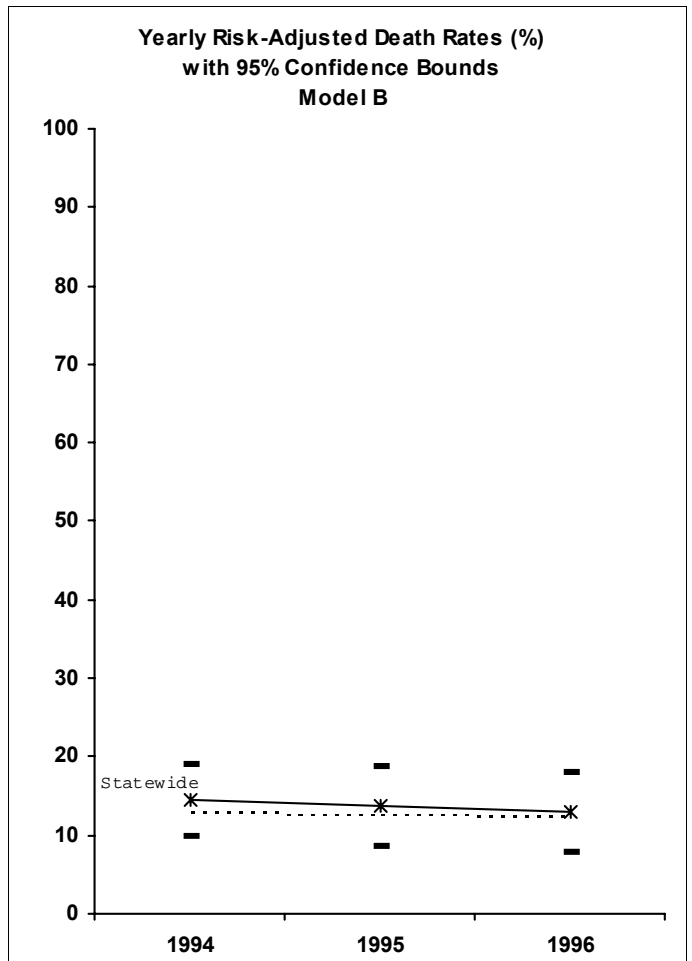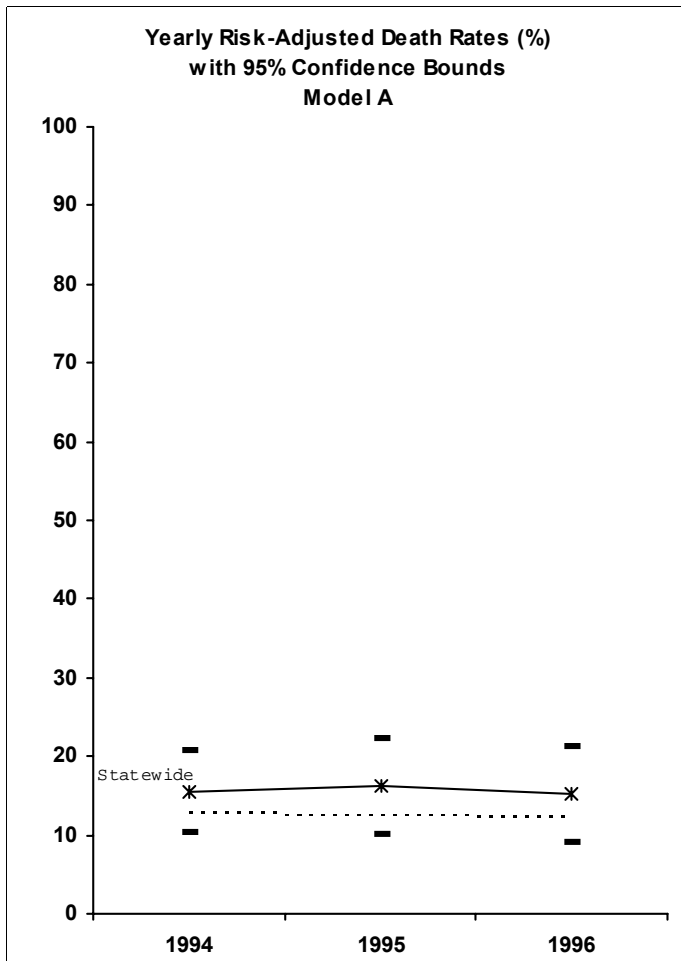
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Granada Hills Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	164	29	21.6	4.1	17.7	13.2	17.0	12.3	21.8	0.052
	1994	Excluded										
	1995	12.8	96	10	11.6	3.1	10.4	12.1	11.0	4.4	17.6	0.367
	1996	12.3	68	19	10.0	2.8	27.9	14.7	23.5	16.7	30.2	0.002
Model B	All Years	12.7	164	29	26.3	4.0	17.7	16.0	14.0	10.2	17.8	0.287
	1994	Excluded										
	1995	12.8	96	10	14.9	3.1	10.4	15.6	8.6	3.4	13.7	0.069
	1996	12.4	68	19	11.3	2.6	27.9	16.7	20.7	15.1	26.3	0.005
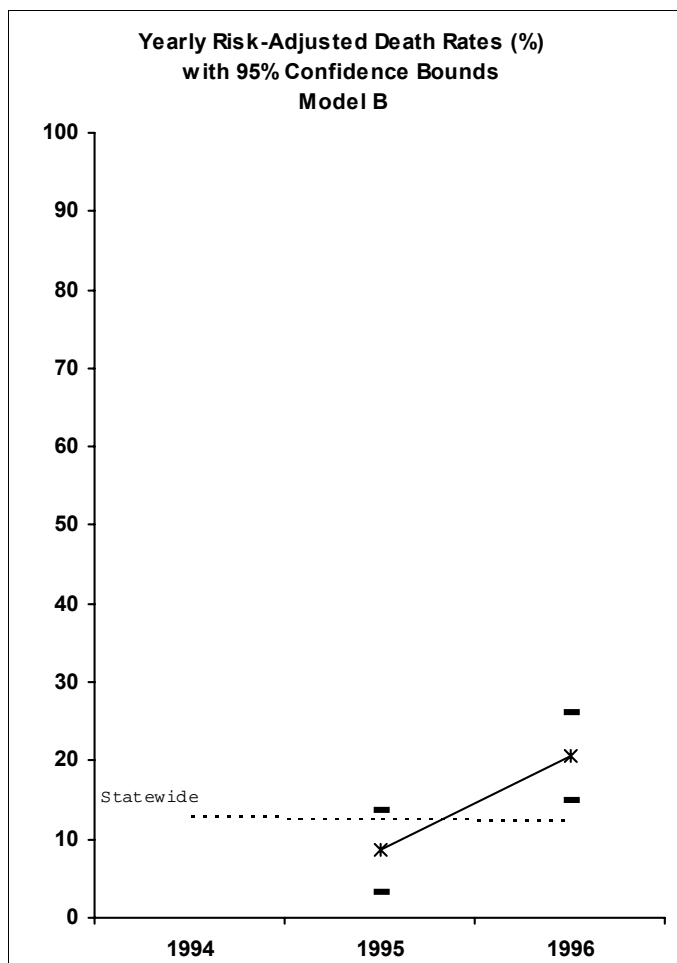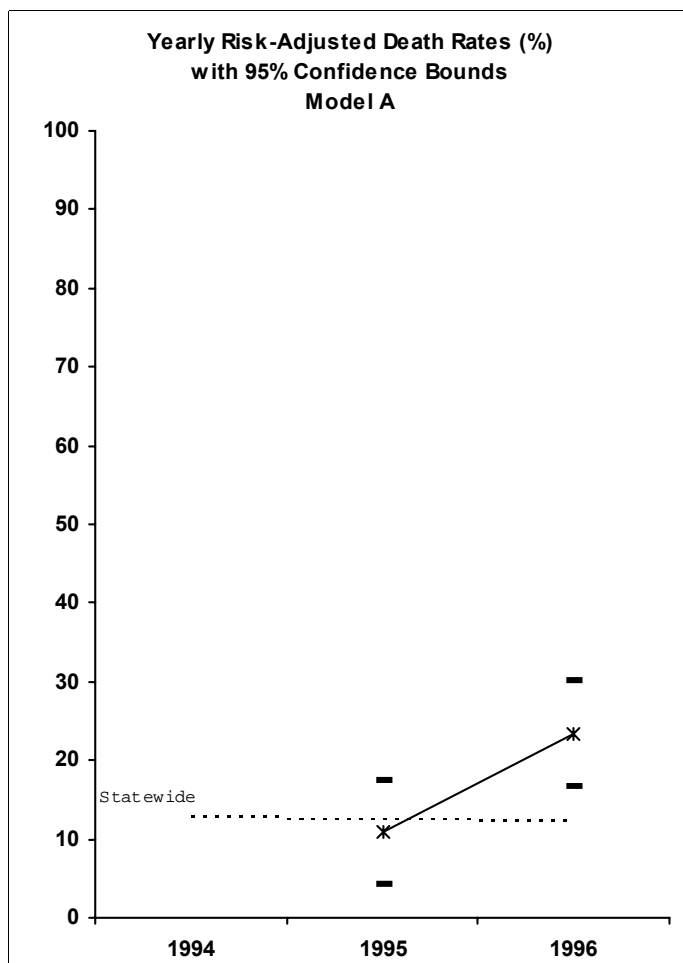
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Greater El Monte Community Hospital												
Model A	All Years	12.7	69	11	9.3	2.7	15.9	13.4	15.1	7.8	22.3	0.314
	1994	Excluded										
	1995	12.8	30	4	3.0	1.6	13.3	10.1	16.9	3.7	30.2	0.357
	1996	12.3	39	7	6.3	2.2	17.9	16.0	13.8	5.4	22.2	0.439
Model B	All Years	12.7	69	11	10.7	2.5	15.9	15.4	13.1	7.3	18.9	0.514
	1994	Excluded										
	1995	12.8	30	4	3.9	1.5	13.3	12.9	13.3	3.6	22.9	0.580
	1996	12.4	39	7	6.8	2.0	17.9	17.4	12.7	5.7	19.8	0.546
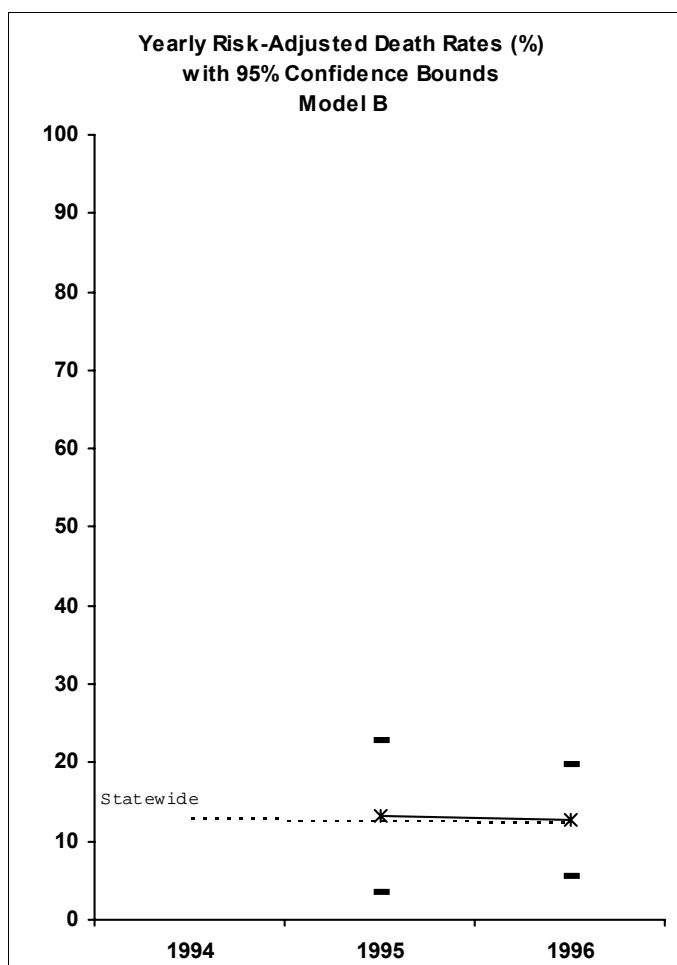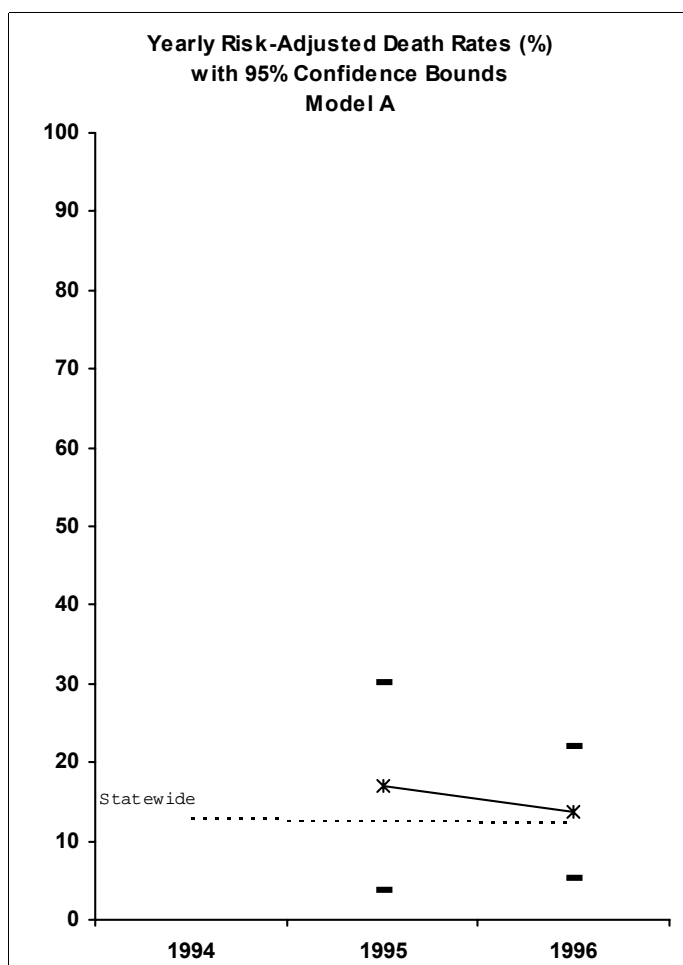
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Hawthorne Hospital												
Model A	All Years	12.7	16	4	3.4	1.5	25.0	21.3	14.9	3.7	26.2	0.455
	1994	13.0	7	2	1.9	1.1	28.6	26.7	13.9	0.0	28.8	0.611
	1995	12.8	2	0	0.1	0.3	0.0	4.3	0.0	0.0	84.0	0.916
	1996	12.3	7	2	1.4	1.0	28.6	20.7	17.0	0.0	34.4	0.445
Model B	All Years	12.7	16	4	3.0	1.4	25.0	18.9	16.8	5.5	28.1	0.346
	1994	12.9	7	2	1.6	0.9	28.6	22.3	16.6	1.5	31.7	0.491
	1995	12.8	2	0	0.0	0.2	0.0	2.0	0.0	0.0	100.0	0.960
	1996	12.4	7	2	1.4	1.0	28.6	20.4	17.3	0.4	34.2	0.439
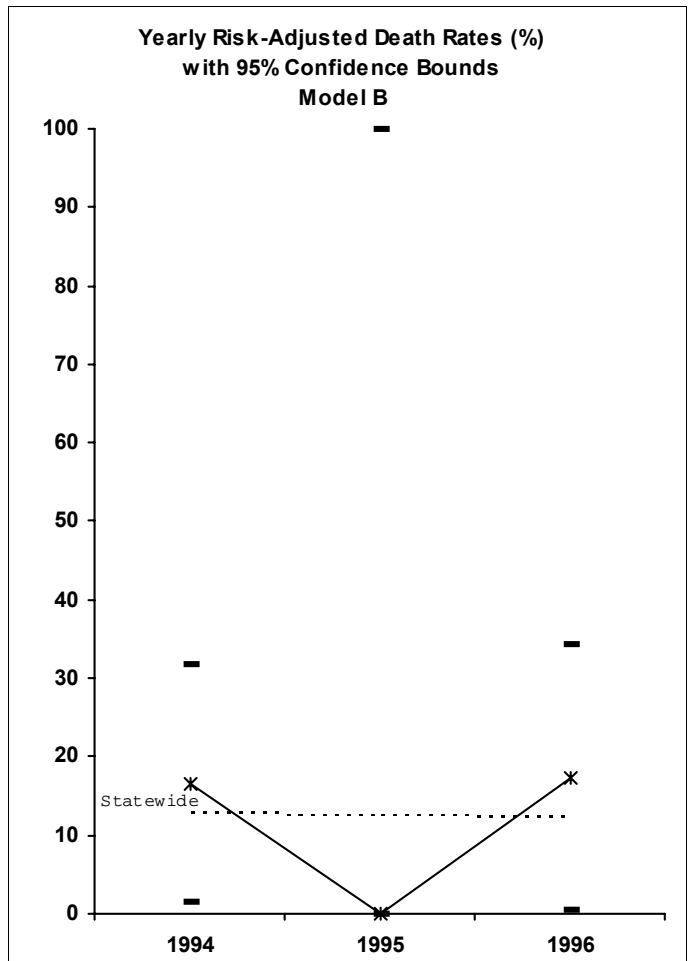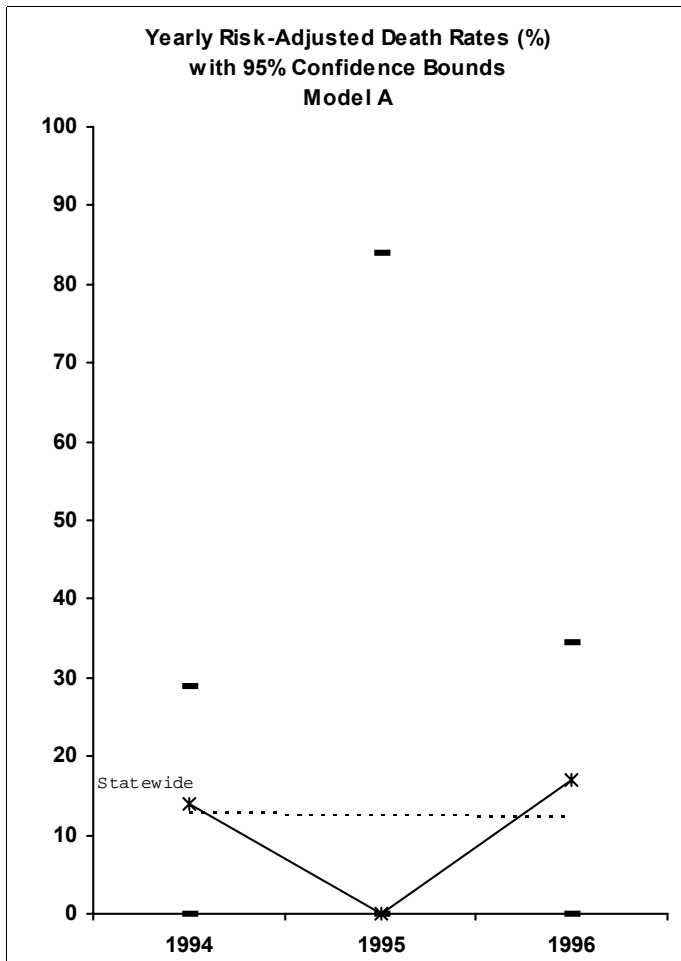
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

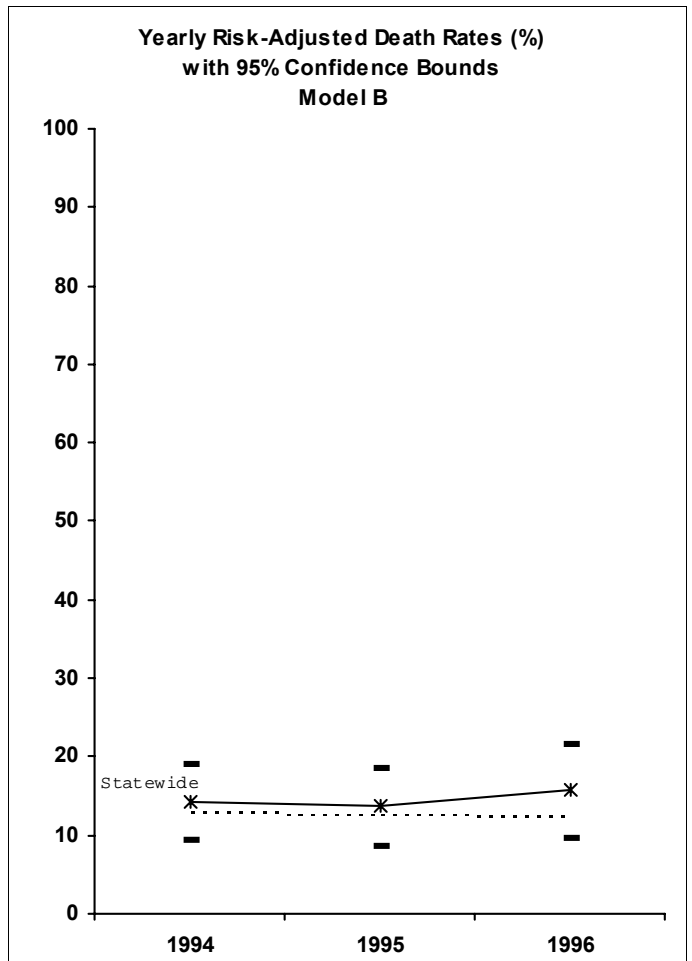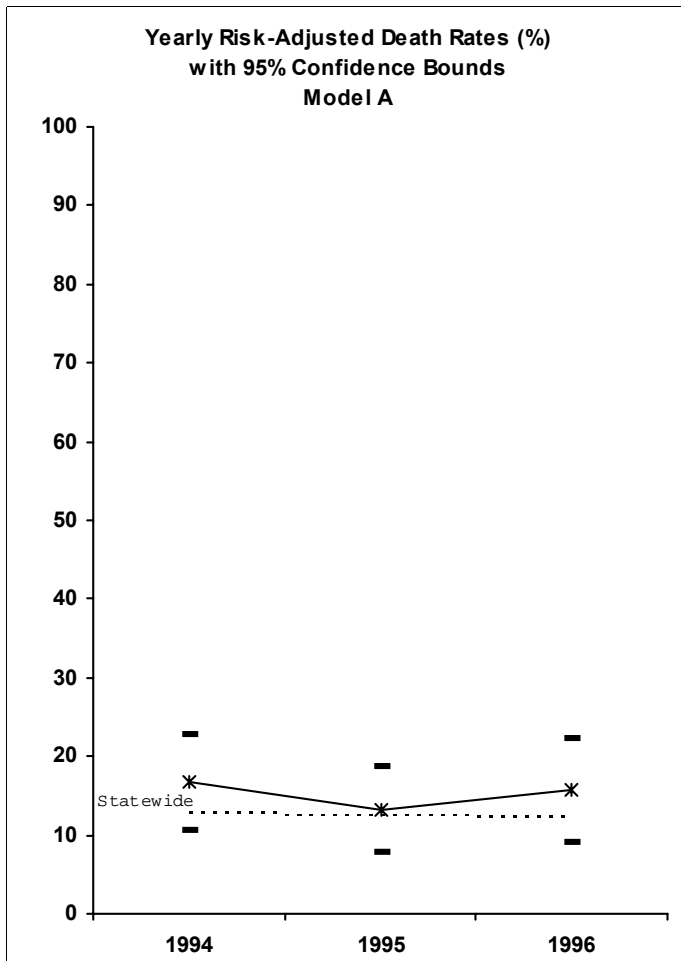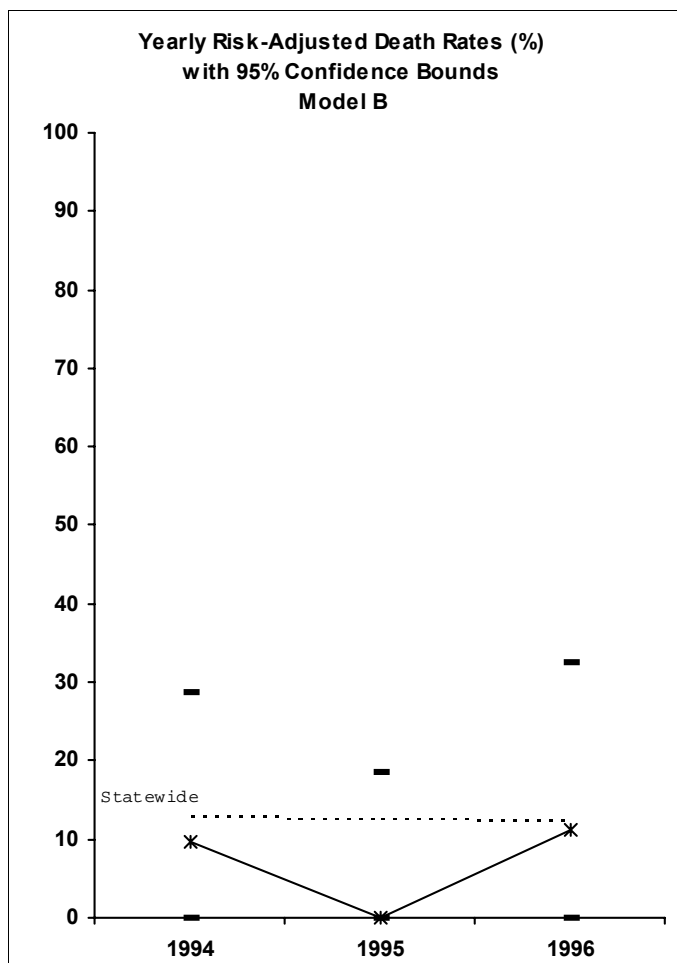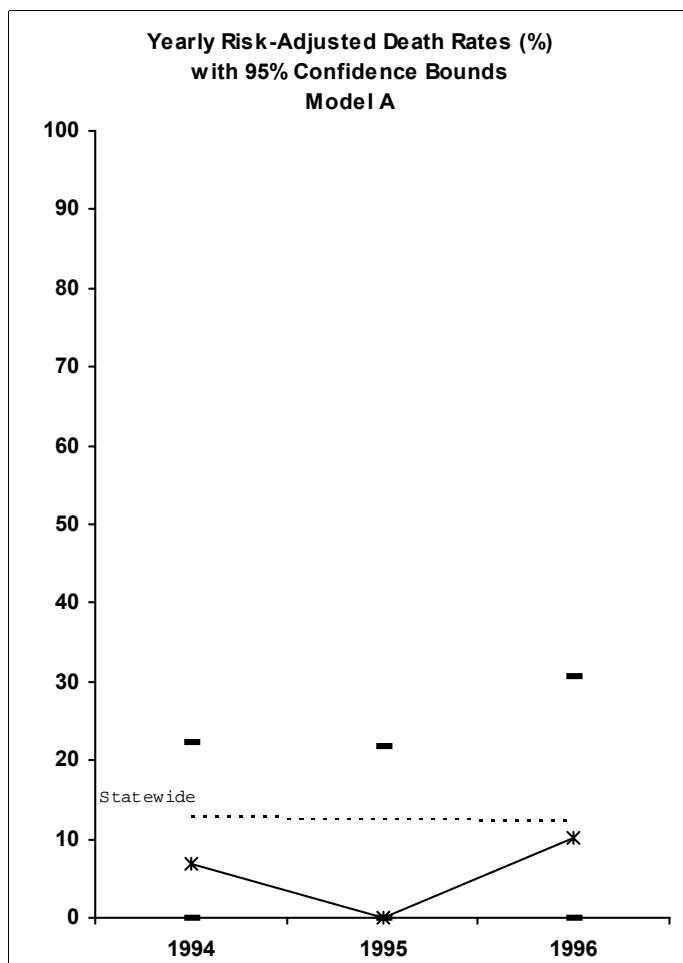Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Office of Statewide Health Planning and Development
California Hospital Outcomes Project

Los Angeles County: Henry Mayo Newhall Memorial Hospital‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	393	49	41.4	5.7	12.5	10.5	15.1	11.6	18.5	0.107
	1994	13.0	129	18	13.9	3.3	14.0	10.8	16.8	10.7	22.9	0.141
	1995	12.8	144	17	16.5	3.6	11.8	11.4	13.2	7.8	18.7	0.483
	1996	12.3	120	14	11.0	3.0	11.7	9.2	15.7	9.2	22.3	0.198
Model B	All Years	12.7	387	49	43.3	5.3	12.7	11.2	14.4	11.3	17.4	0.163
	1994	12.9	127	18	16.3	3.1	14.2	12.8	14.3	9.4	19.2	0.344
	1995	12.8	141	17	16.0	3.2	12.1	11.3	13.6	8.6	18.6	0.426
	1996	12.4	119	14	11.1	2.8	11.8	9.3	15.7	9.6	21.7	0.186

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Los Angeles County: Hollywood Community Hospital

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	31	2	4.1	1.8	6.5	13.2	6.2	0.0	17.0	0.185
	1994	13.0	11	1	1.9	1.2	9.1	17.1	6.9	0.0	22.4	0.396
	1995	12.8	5	0	1.0	0.9	0.0	19.9	0.0	0.0	21.8	0.318
	1996	12.3	15	1	1.2	1.0	6.7	8.1	10.1	0.0	30.7	0.651
Model B	All Years	12.7	31	2	3.6	1.6	6.5	11.5	7.1	0.0	18.5	0.266
	1994	12.9	11	1	1.3	1.0	9.1	12.1	9.7	0.0	28.6	0.607
	1995	12.8	5	0	1.1	0.8	0.0	22.6	0.0	0.0	18.6	0.235
	1996	12.4	15	1	1.1	1.0	6.7	7.4	11.2	0.0	32.5	0.696

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Los Angeles County: Huntington East Valley Hospital

| | | Statewide Death Rate (%) | Number of Cases Included | Number of Observed Deaths | Number of Expected Deaths | Standard Deviation of Observed Deaths | Observed Death Rate (%) | Expected Death Rate (%) | Risk-Adjusted Death Rate (%) | Risk-Adjusted Death Rate 95% Confidence Bounds | | Probability This Rate Occurred by Chance |
										Lower	Upper	
Model A	All Years	12.7	84	12	11.0	2.9	14.3	13.1	13.9	7.2	20.5	0.421
	1994	13.0	37	5	5.0	2.0	13.5	13.6	12.8	2.8	22.9	0.609
	1995	12.8	28	5	2.9	1.5	17.9	10.4	22.1	8.7	35.4	0.149
	1996	12.3	19	2	3.1	1.5	10.5	16.1	8.1	0.0	19.8	0.372
Model B	All Years	12.7	84	12	10.4	2.6	14.3	12.4	14.6	8.3	20.9	0.335
	1994	12.9	37	5	5.5	1.8	13.5	14.9	11.7	3.3	20.2	0.517
	1995	12.8	28	5	2.4	1.3	17.9	8.5	26.9	12.8	41.0	0.064
	1996	12.4	19	2	2.6	1.4	10.5	13.5	9.7	0.0	22.5	0.509
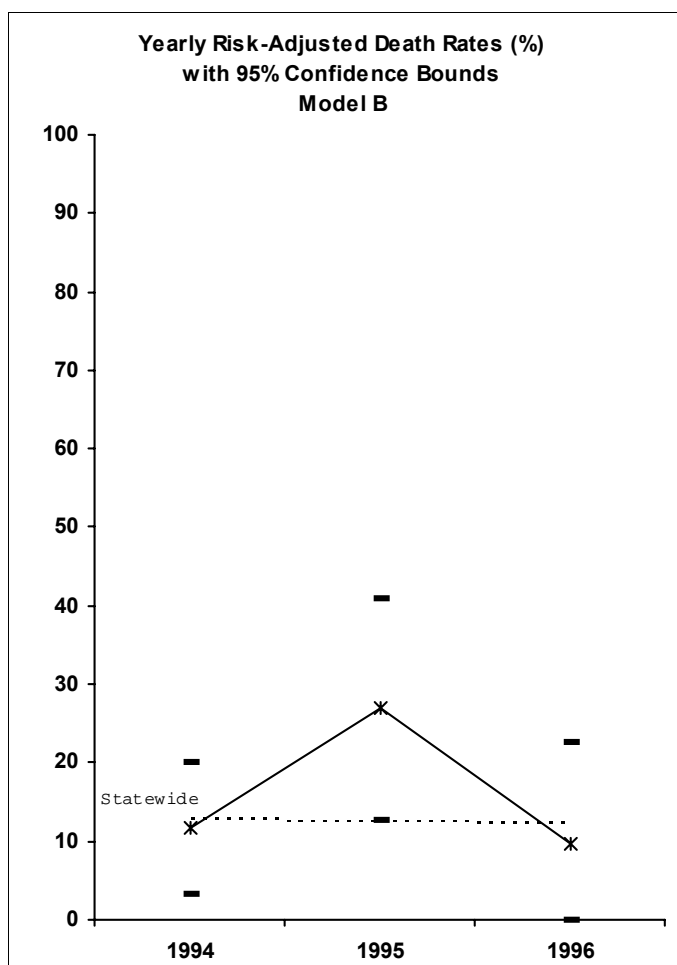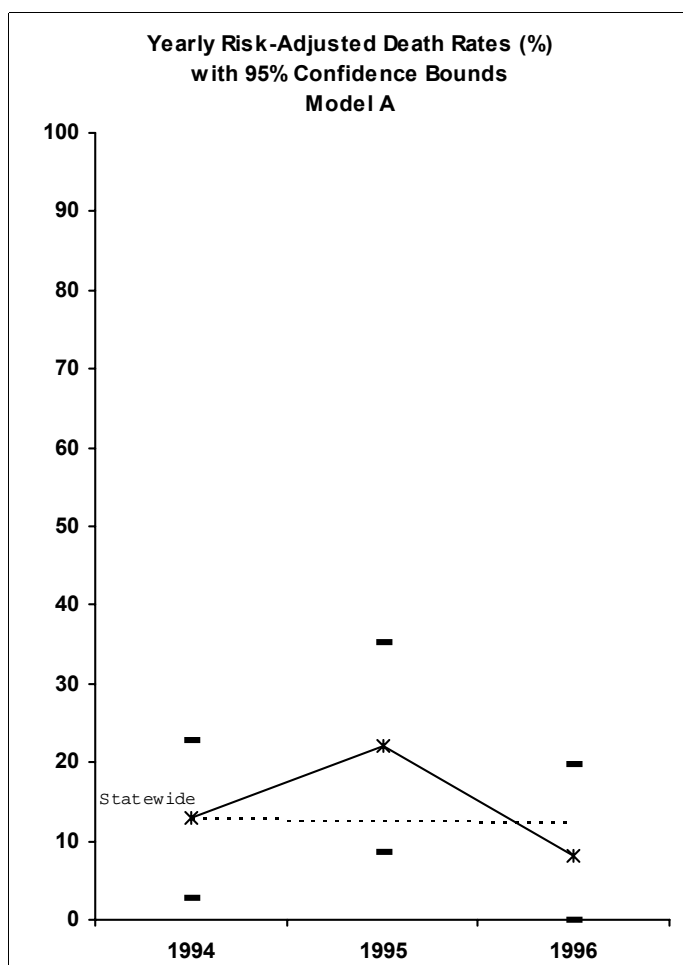
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Huntington Memorial Hospital												
Model A	All Years	12.7	775	94	98.9	8.8	12.1	12.8	12.1	9.9	14.3	0.310
	1994	13.0	283	32	36.1	5.3	11.3	12.8	11.5	7.7	15.2	0.253
	1995	12.8	264	28	34.6	5.2	10.6	13.1	10.4	6.6	14.1	0.118
	1996	12.3	228	34	28.2	4.7	14.9	12.4	14.9	10.9	18.9	0.130
Model B	All Years	12.7	775	94	102.1	8.2	12.1	13.2	11.7	9.7	13.7	0.178
	1994	12.9	283	32	37.3	5.0	11.3	13.2	11.1	7.7	14.5	0.170
	1995	12.8	264	28	33.7	4.7	10.6	12.8	10.7	7.1	14.2	0.134
	1996	12.4	228	34	31.1	4.4	14.9	13.6	13.5	10.1	17.0	0.284
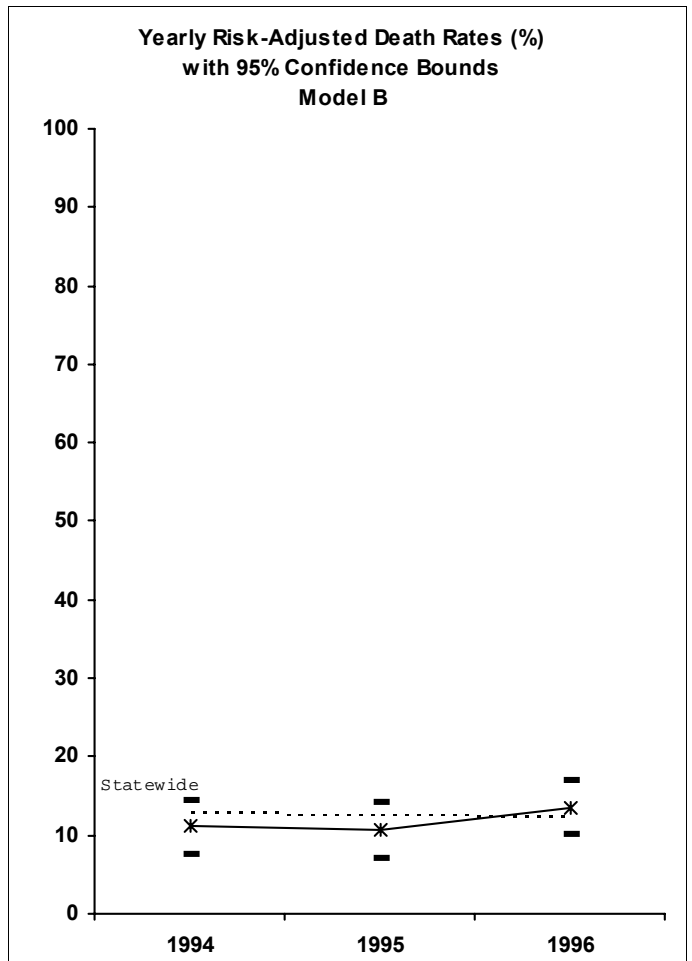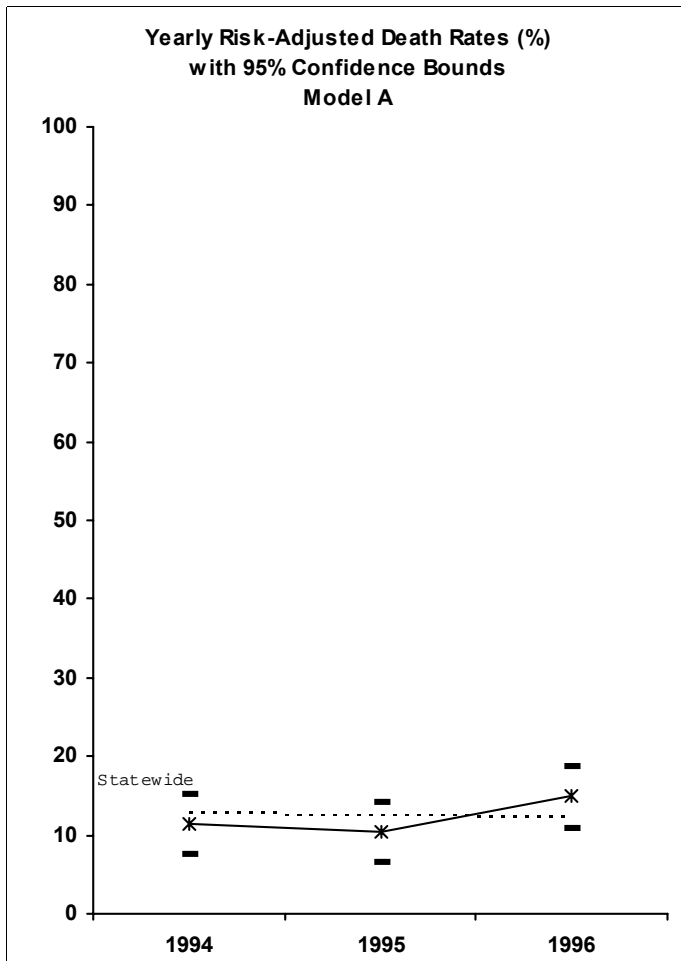
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Los Angeles County: Kaiser Foundation Hospital-Bellflower‡												
Model A	All Years	12.7	892	60	86.2	8.4	6.7	9.7	8.8	6.4	11.3	0.001
	1994	13.0	294	23	29.0	4.8	7.8	9.9	10.3	6.1	14.5	0.126
	1995	12.8	323	25	31.0	5.0	7.7	9.6	10.3	6.3	14.4	0.137
	1996	12.3	275	12	26.3	4.6	4.4	9.6	5.6	1.4	9.9	0.001
Model B	All Years	12.7	885	60	70.1	7.1	6.8	7.9	10.9	8.3	13.4	0.088
	1994	12.9	294	23	23.5	4.1	7.8	8.0	12.7	8.2	17.1	0.512
	1995	12.8	321	25	26.6	4.3	7.8	8.3	12.1	8.0	16.1	0.408
	1996	12.4	270	12	20.0	3.9	4.4	7.4	7.4	2.7	12.2	0.022
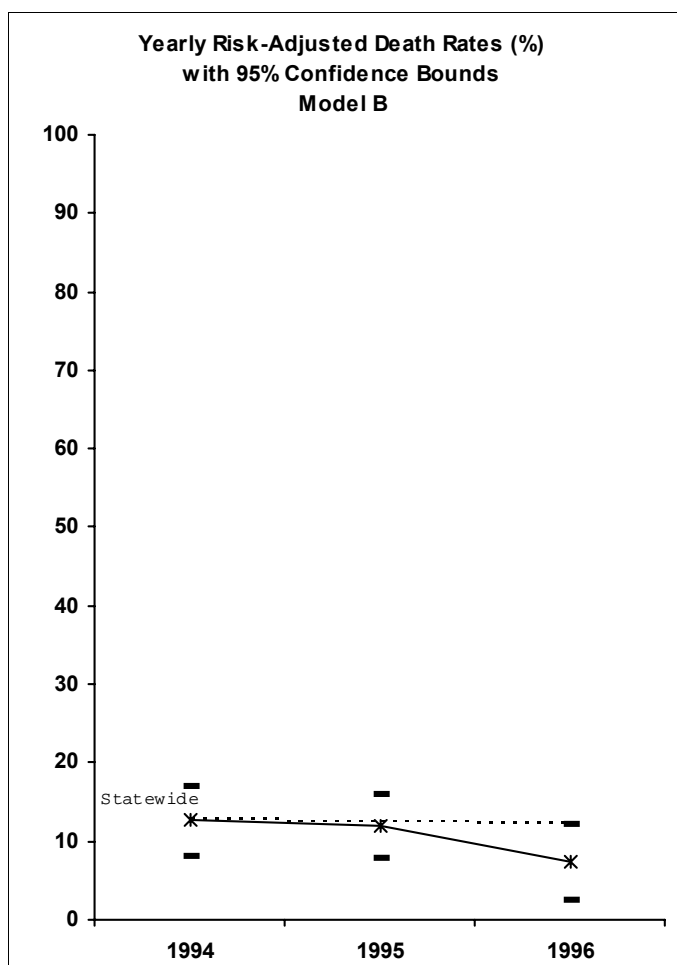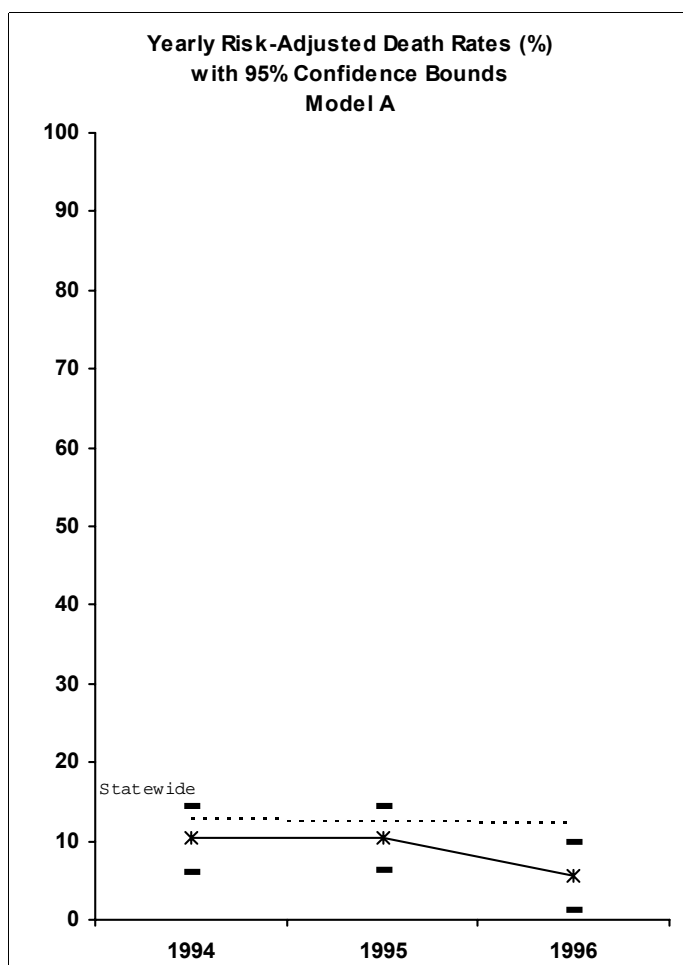
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Kaiser Foundation Hospital-Harbor City‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	476	35	51.0	6.3	7.4	10.7	8.7	5.6	11.8	0.005
	1994	13.0	166	10	18.6	3.8	6.0	11.2	7.0	1.8	12.2	0.012
	1995	12.8	176	15	18.2	3.8	8.5	10.4	10.5	5.3	15.8	0.241
	1996	12.3	134	10	14.2	3.3	7.5	10.6	8.7	3.1	14.3	0.129
Model B	All Years	12.7	476	35	48.0	5.7	7.4	10.1	9.3	6.3	12.2	0.011
	1994	12.9	166	10	17.6	3.5	6.0	10.6	7.4	2.3	12.4	0.016
	1995	12.8	176	15	16.6	3.4	8.5	9.4	11.6	6.5	16.8	0.388
	1996	12.4	134	10	13.9	2.9	7.5	10.4	8.9	3.9	13.9	0.117
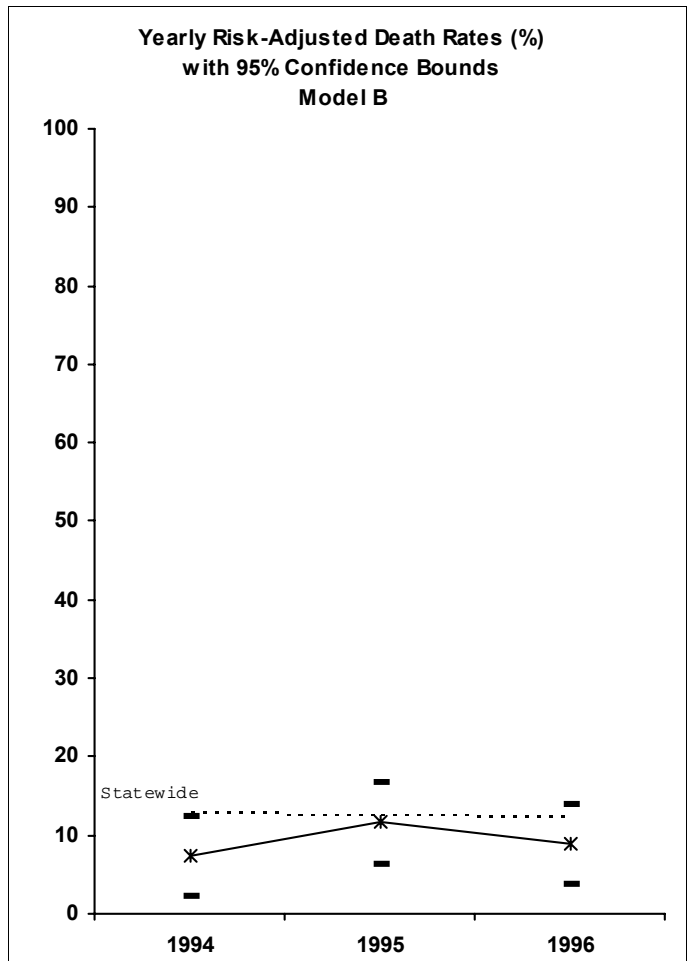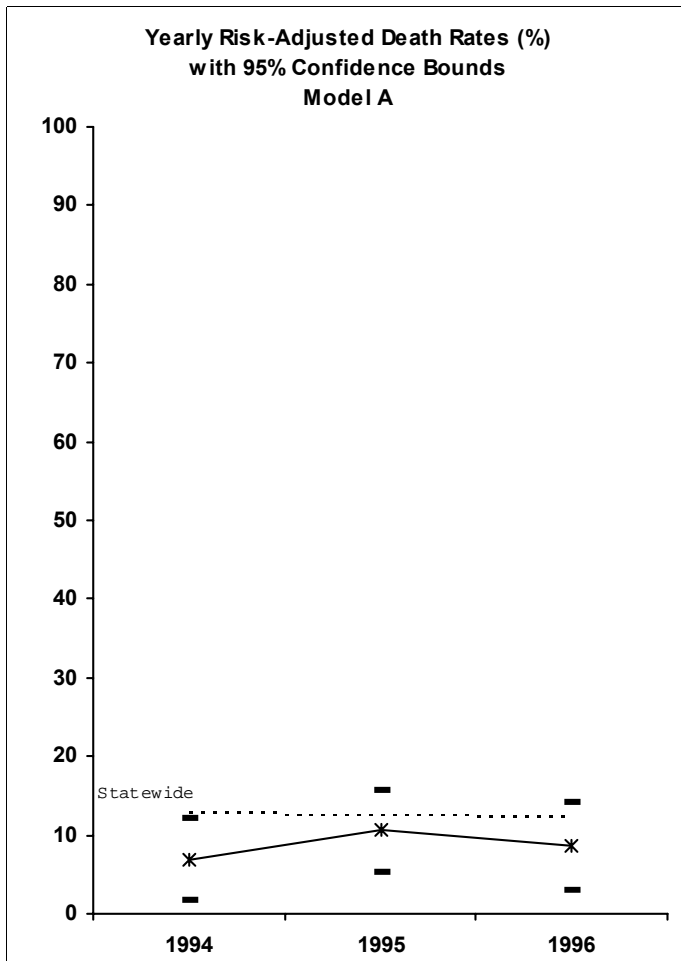
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Kaiser Foundation Hospital-Los Angeles‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	714	51	79.6	7.9	7.1	11.2	8.1	5.7	10.6	0.000
	1994	13.0	248	22	29.6	4.8	8.9	11.9	9.6	5.5	13.7	0.065
	1995	12.8	238	11	27.7	4.7	4.6	11.6	5.1	0.9	9.3	0.000
	1996	12.3	228	18	22.3	4.2	7.9	9.8	10.0	5.4	14.6	0.185
Model B	All Years	12.7	712	51	64.0	6.9	7.2	9.0	10.1	7.4	12.8	0.033
	1994	12.9	248	22	23.8	4.2	8.9	9.6	11.9	7.5	16.4	0.387
	1995	12.8	236	11	22.1	4.0	4.7	9.4	6.4	1.8	11.0	0.002
	1996	12.4	228	18	18.1	3.7	7.9	7.9	12.3	7.3	17.3	0.554
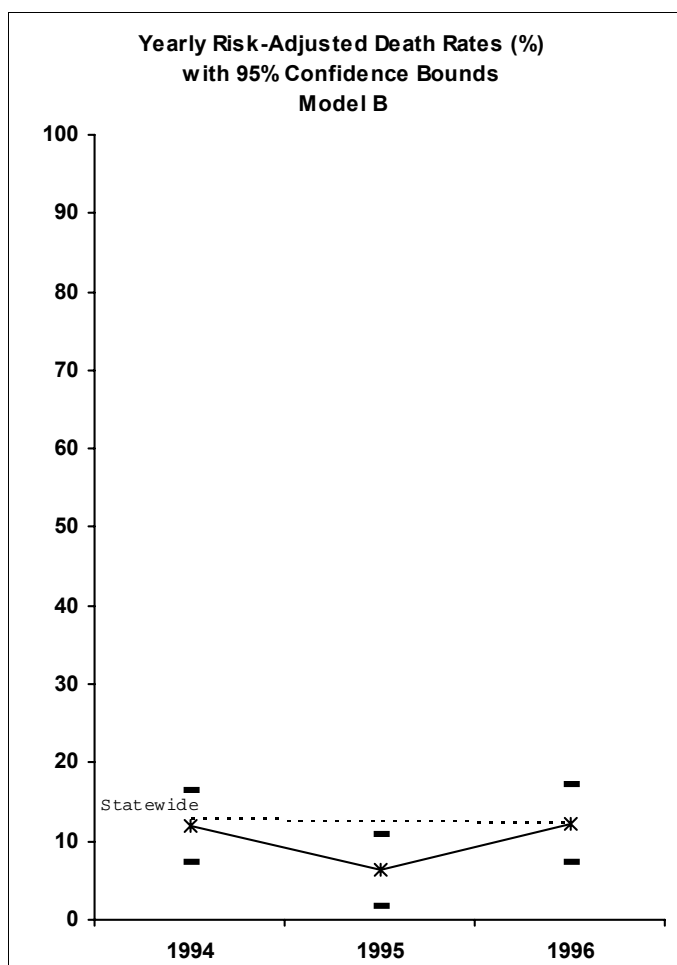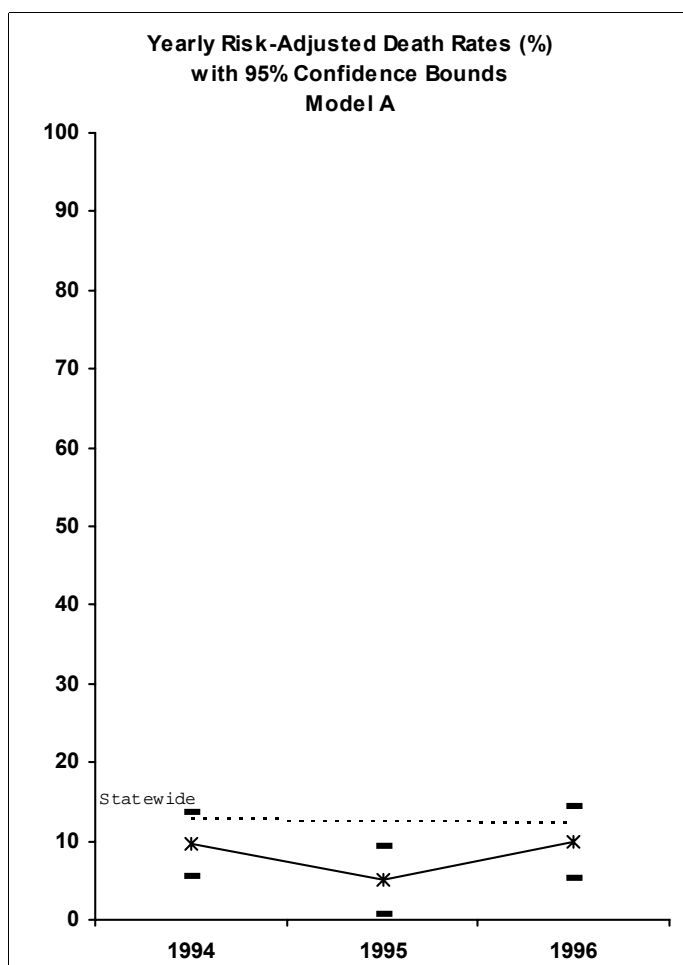
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Los Angeles County: Kaiser Foundation Hospital-Panorama City‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	747	66	82.2	8.1	8.8	11.0	10.2	7.8	12.6	0.023
	1994	13.0	282	26	31.3	5.0	9.2	11.1	10.8	6.7	14.8	0.171
	1995	12.8	241	18	25.6	4.5	7.5	10.6	9.0	4.6	13.4	0.054
	1996	12.3	224	22	25.4	4.4	9.8	11.3	10.7	6.5	14.9	0.262
Model B	All Years	12.7	736	65	72.7	7.1	8.8	9.9	11.4	8.9	13.8	0.155
	1994	12.9	279	26	30.8	4.6	9.3	11.0	10.9	7.1	14.7	0.172
	1995	12.8	235	17	20.3	3.8	7.2	8.6	10.7	6.0	15.5	0.236
	1996	12.4	222	22	21.6	3.8	9.9	9.7	12.6	8.3	16.9	0.498
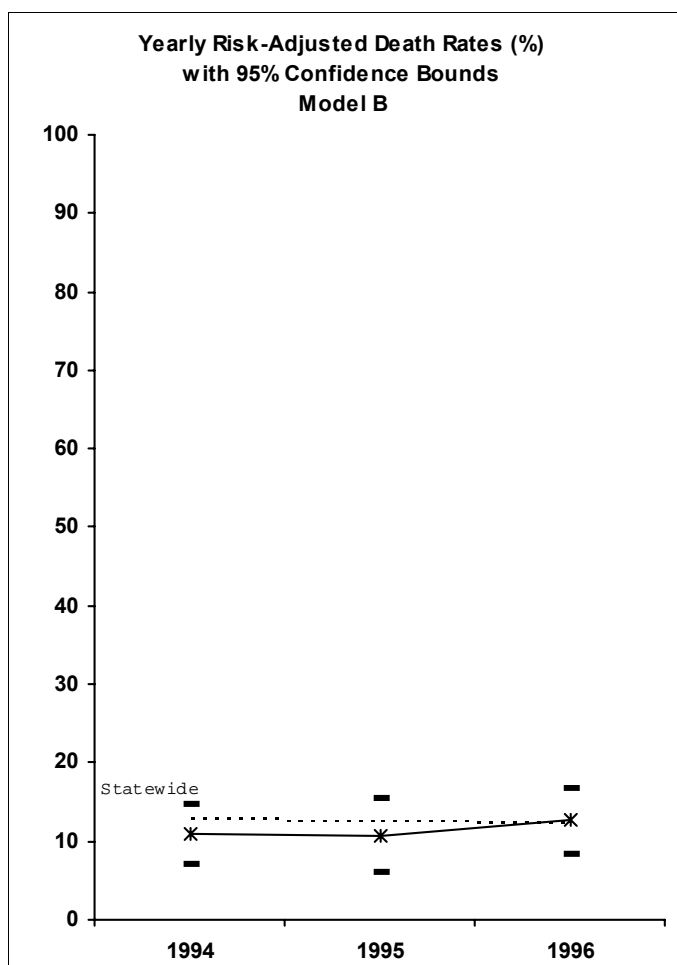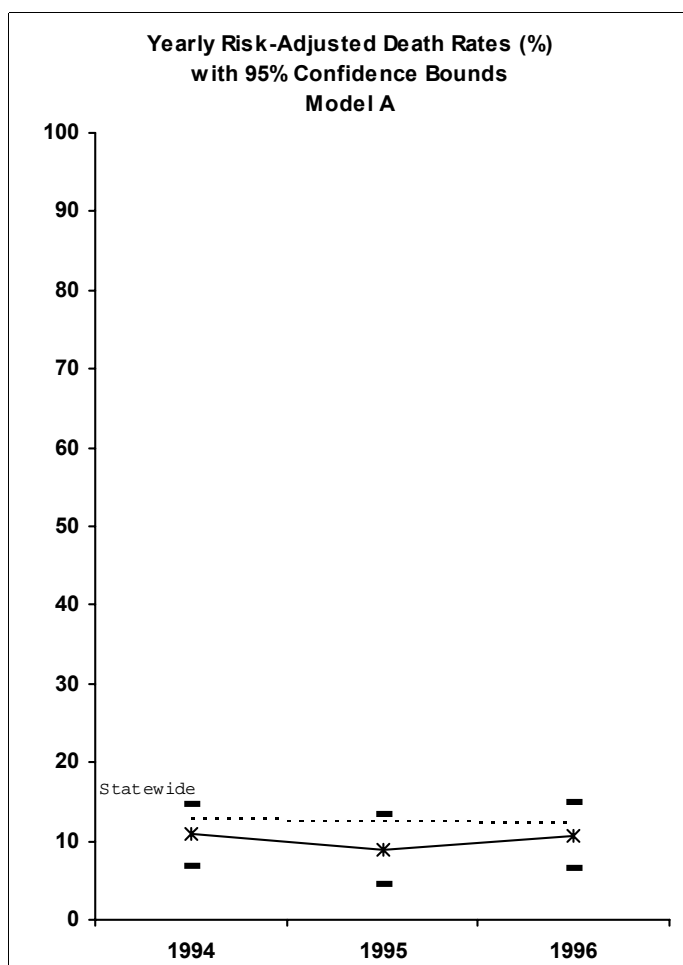
**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A**

**Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B**

‡ Hospital sent comment letter

Los Angeles County: Kaiser Foundation Hospital-West Los Angeles Med Ctr‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	578	58	73.4	7.5	10.0	12.7	10.0	7.5	12.6	0.021
	1994	13.0	221	21	27.8	4.6	9.5	12.6	9.8	5.6	14.0	0.081
	1995	12.8	171	18	20.8	4.0	10.5	12.2	11.1	6.2	15.9	0.288
	1996	12.3	186	19	24.7	4.3	10.2	13.3	9.5	5.3	13.7	0.108
Model B	All Years	12.7	576	57	60.8	6.4	9.9	10.6	11.9	9.3	14.6	0.309
	1994	12.9	221	21	22.3	4.0	9.5	10.1	12.2	7.7	16.7	0.430
	1995	12.8	170	18	17.3	3.4	10.6	10.2	13.3	8.3	18.3	0.468
	1996	12.4	185	18	21.2	3.7	9.7	11.4	10.5	6.2	14.8	0.240
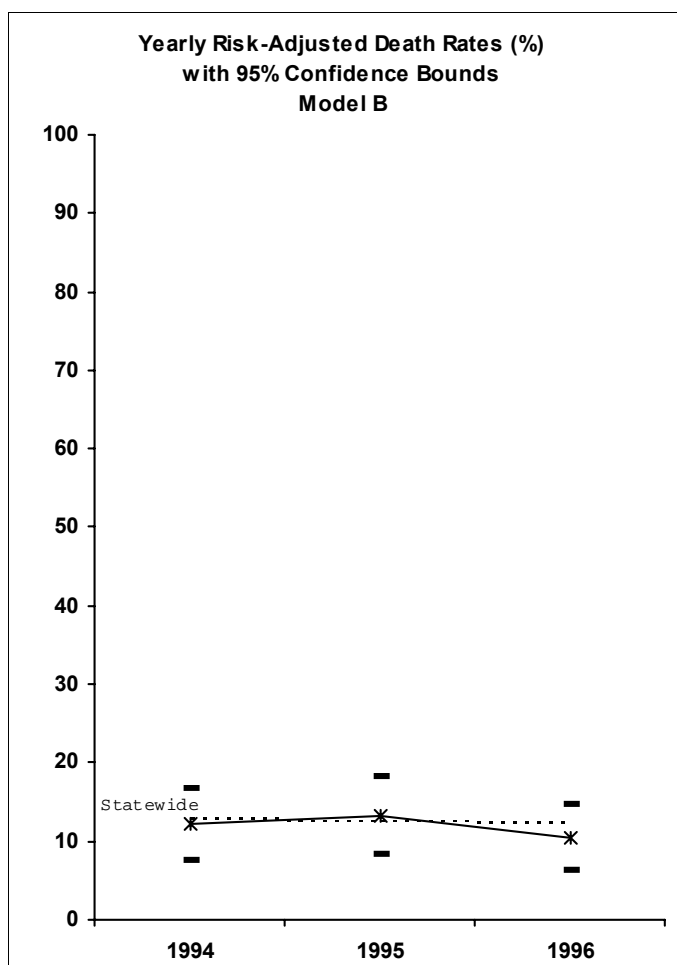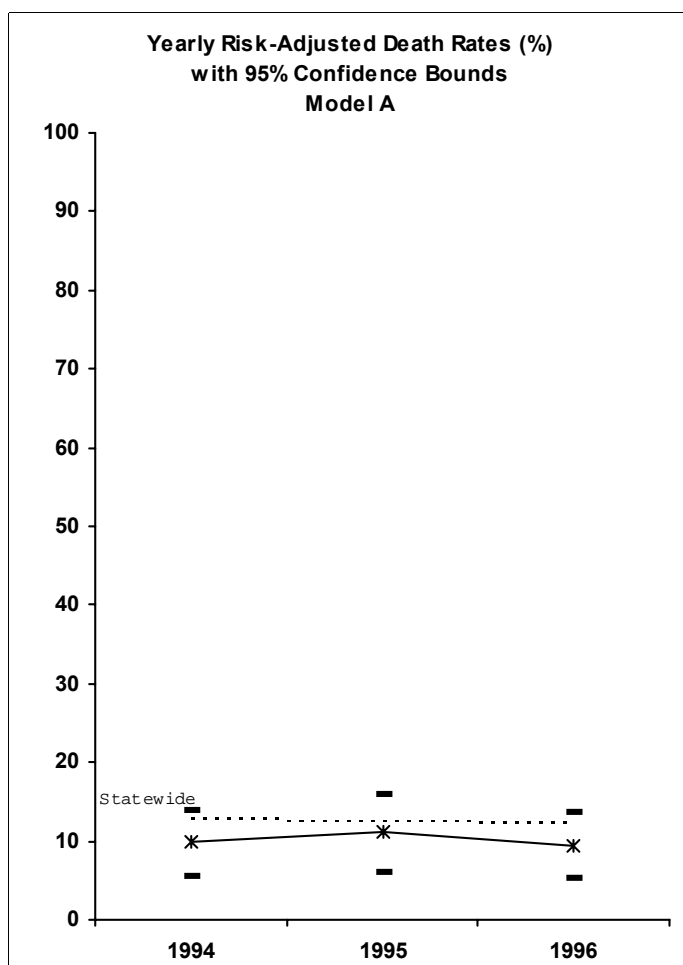
Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: Kaiser Foundation Hospital-Woodland Hills‡

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	649	47	60.6	7.0	7.2	9.3	9.9	7.0	12.8	0.029
	1994	13.0	186	10	17.0	3.8	5.4	9.2	7.6	2.0	13.2	0.034
	1995	12.8	244	15	22.9	4.3	6.1	9.4	8.4	3.7	13.1	0.039
	1996	12.3	219	22	20.7	4.1	10.0	9.4	13.1	8.3	18.0	0.409
Model B	All Years	12.7	648	47	54.0	6.3	7.3	8.3	11.1	8.2	14.0	0.151
	1994	12.9	186	10	14.8	3.4	5.4	8.0	8.7	2.9	14.5	0.098
	1995	12.8	243	15	21.0	3.9	6.2	8.7	9.1	4.5	13.7	0.070
	1996	12.4	219	22	18.1	3.6	10.0	8.3	15.0	10.1	19.9	0.176
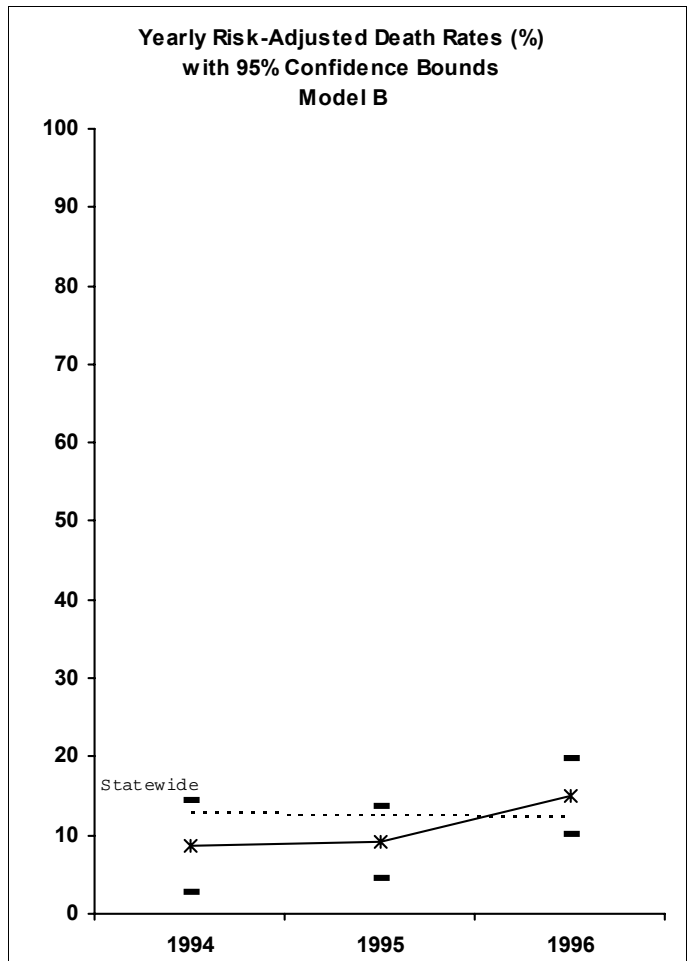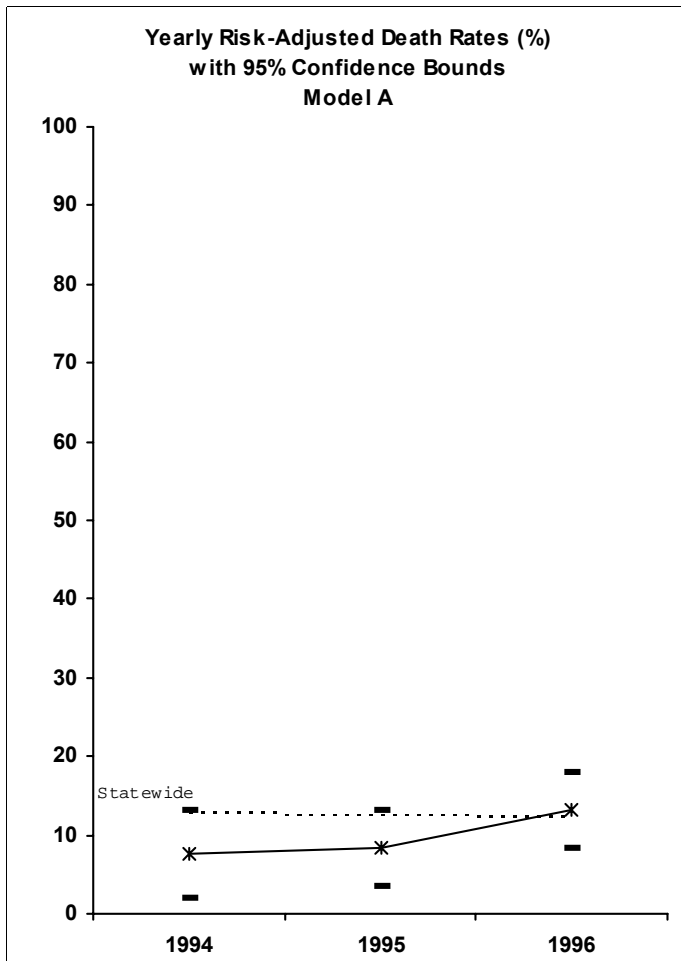
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: L.A. Co/Harbor-UCLA Medical Center

		Statewide Death Rate (%)	Number of Cases Included	Number of Observed Deaths	Number of Expected Deaths	Standard Deviation of Observed Deaths	Observed Death Rate (%)	Expected Death Rate (%)	Risk-Adjusted Death Rate (%)	Risk-Adjusted Death Rate 95% Confidence Bounds		Probability This Rate Occurred by Chance
										Lower	Upper	
Model A	All Years	12.7	253	24	22.3	4.3	9.5	8.8	13.7	8.9	18.5	0.379
	1994	Excluded										
	1995	12.8	131	15	12.8	3.2	11.5	9.8	15.0	8.7	21.3	0.291
	1996	12.3	122	9	9.5	2.8	7.4	7.8	11.7	4.5	18.9	0.520
Model B	All Years	12.7	248	24	23.6	3.8	9.7	9.5	12.9	8.9	17.0	0.505
	1994	Excluded										
	1995	12.8	128	15	13.1	2.9	11.7	10.3	14.6	9.2	20.1	0.309
	1996	12.4	120	9	10.5	2.5	7.5	8.7	10.6	4.7	16.5	0.359
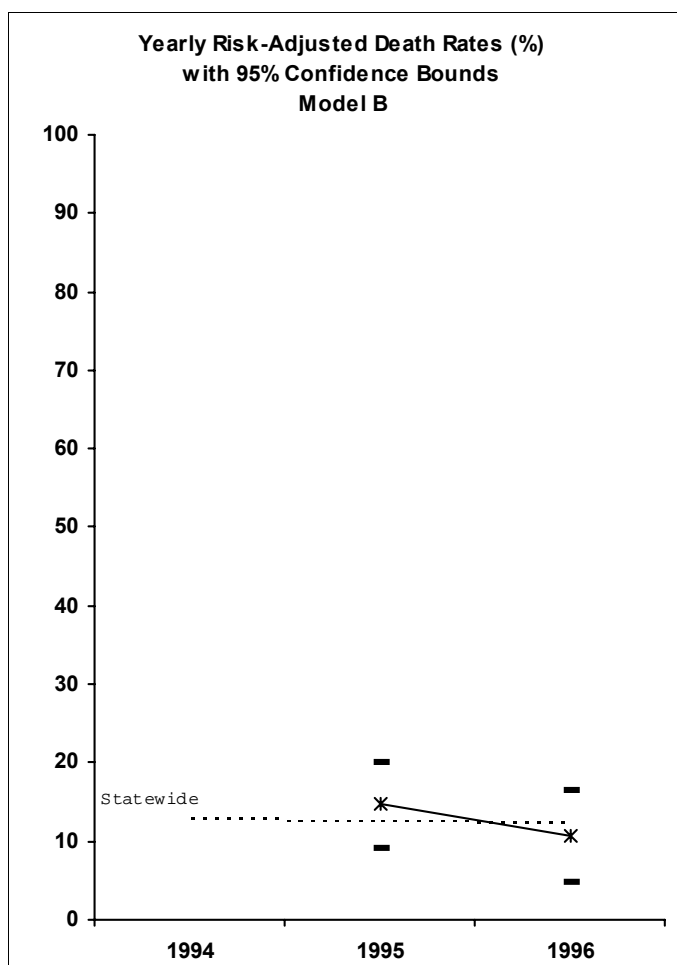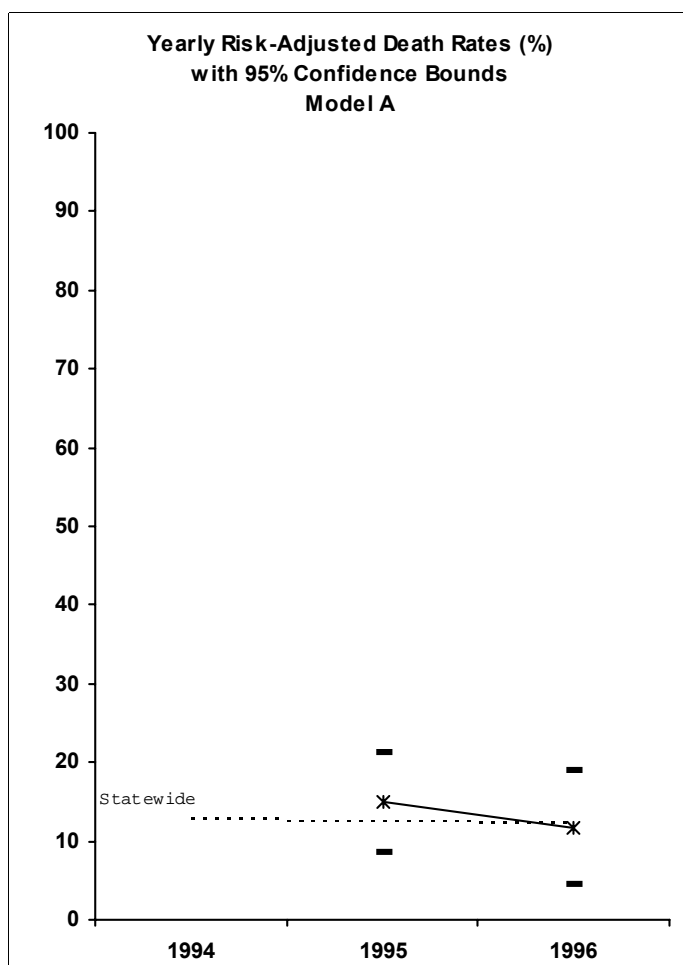
Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model A

Yearly Risk-Adjusted Death Rates (%) with 95% Confidence Bounds — Model B

‡ Hospital sent comment letter

Detailed Statistical Results
for Acute Myocardial Infarction Mortality

Los Angeles County: L.A. Co/High Desert Hospital

| | | Statewide Death Rate (%) | Number of Cases Included | Number of Observed Deaths | Number of Expected Deaths | Standard Deviation of Observed Deaths | Observed Death Rate (%) | Expected Death Rate (%) | Risk-Adjusted Death Rate (%) | Risk-Adjusted Death Rate 95% Confidence Bounds | | Probability This Rate Occurred by Chance |
										Lower	Upper	
Model A	All Years	12.7	11	0	0.9	0.8	0.0	8.3	0.0	0.0	23.0	0.352
	1994	13.0	4	0	0.5	0.6	0.0	11.4	0.0	0.0	30.8	0.571
	1995	12.8	6	0	0.4	0.6	0.0	7.4	0.0	0.0	35.6	0.626
	1996	12.3	1	0	0.0	0.1	0.0	1.7	0.0	0.0	100.0	0.983
Model B	All Years	12.7	9	0	0.4	0.6	0.0	4.9	0.0	0.0	35.1	0.624
	1994	12.9	4	0	0.2	0.4	0.0	5.6	0.0	0.0	48.6	0.781
	1995	12.8	5	0	0.2	0.4	0.0	4.3	0.0	0.0	52.0	0.799
	1996	12.4	0									

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model A

Yearly Risk-Adjusted Death Rates (%)
with 95% Confidence Bounds
Model B

‡ Hospital sent comment letter